INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • Fax (317) 233-6647 • www.idem.IN.gov

Mike Braun
Governor

Clint Woods
Commissioner

NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding a New Source Construction and Minor Source Operating Permit (MSOP)

for Re-Gen, Inc. in Elkhart County

MSOP No.: M039-50728-02045

The Indiana Department of Environmental Management (IDEM) has received an application from Re-Gen, Inc., located at 221 W US 20, Suite C, Middlebury, IN 46540, for a new source construction and MSOP. If approved by IDEM's Office of Air Quality (OAQ), this proposed permit would allow Re-Gen, Inc. to construct and operate a new stationary plastic (polyethylene) extrusion facility.

The applicant intends to construct and operate new equipment that will emit air pollutants. IDEM has reviewed this application, and has developed preliminary findings, consisting of a draft permit and several supporting documents that would allow the applicant to make this change.

IDEM is aware that the source has been constructed and operated prior to receipt of the proper permit. IDEM is reviewing this matter and will take appropriate action. This draft permit contains provisions to bring unpermitted equipment into compliance with construction and operation permit rules.

A copy of the permit application and IDEM's preliminary findings have been sent to:

Middlebury Public Library
101 E Winslow St.
Middlebury, IN 46540

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

A copy of the application and preliminary findings is also available via IDEM's Virtual File Cabinet (VFC) located at https://www.in.gov/idem/legal/public-records/virtual-file-cabinet/. Once you have accessed VFC, you will then have the option to search for source related documents using a variety of criteria. To find documents related to this air permit, click on "Advanced Search", specify "OAQ" in the Program search field, specify the five-digit permit number "50728" in the Permit # search field, then click the Search button at the top or bottom of the webpage.

How can you participate in this process?

This notice is posted on IDEM's website (https://www.in.gov/idem/public-notices/). The date that this notice is posted on IDEM's website marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked, faxed, emailed, or delivered in person by the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit by sending a written request to IDEM at the address below. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If IDEM decides to conduct a public hearing and/or public meeting, IDEM will post a separate announcement of the date, time, and location of that public hearing and/or public meeting on IDEM's website (https://www.in.gov/idem/public-notices/). At a hearing, you would have an opportunity to submit written comments and make verbal

comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number M039-50728-02045 in all correspondence.

Comments should be sent to:

Tori Tamburrino
IDEM, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for Tori Tamburrino or (317) 233-0043
Or dial directly: (317) 233-0043
Fax: (317) 232-6749 attn: Tori Tamburrino
E-mail: VTamburr@idem.IN.gov

In order to notify you of our final decision regarding this permitting action, your U.S. mailing address must be submitted with all comments.

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

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: https://www.in.gov/idem/airpermit/public-participation/; and the Citizens' Guide to IDEM on the Internet at: https://www.in.gov/idem/about/citizens-guide-to-idem.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the addresses indicated above and will also be sent to the local library indicated above.

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



Natalie Laures, Section Chief
Permits Branch
Office of Air Quality

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Mike Braun
Governor

Clint Woods
Commissioner

DRAFT

New Source Construction and Minor Source Operating Permit
OFFICE OF AIR QUALITY

Re-Gen, Inc.
221 W US 20
Suite C
Middlebury, Indiana 46540

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-5.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

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

Operation Permit No.: M039-50728-02045 Master Agency Interest ID: 137568	
Issued by: Natalie Laures, Section Chief Permits Branch Office of Air Quality	Issuance Date: Expiration Date:

Visit on.IN.gov/survey or scan the QR code to provide feedback.
We appreciate your input!

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary plastic (polyethylene) extrusion facility.

Source Address:	221 W US 20, Suite C, Middlebury, Indiana 46540
General Source Phone Number:	(574) 358-0240
SIC Code:	5093 (Scrap and Waste Materials)
County Location:	Elkhart
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

(a) One (1) plastic scrap shredder, identified as SHR-1, constructed in 2022, with a rated maximum throughput of 3,000 pounds per hour, and exhausting to stack SV-1.

(b) One (1) plastic scrap grinder, identified as GRI-1, constructed in 2023, with a rated maximum throughput of 4,000 pounds per hour, using a cyclone for particulate control, and exhausting to stack SV-2.

(c) Three (3) pelletizing extruders, exhausting to stack SV-3, including:

Unit ID	Construction Year	Rated Maximum Throughput (lb/hr)
EXT-1	2020	2,000
EXT-2	2021	2,000
EXT-3	2022	2,000

(d) One (1) recycled plastics blender, identified as BLD-1, constructed in 2022, with a rated maximum throughput of 3,000 pounds per hour, and exhausting to stack SV-3.

(e) Three (3) pulverizers, each using a cyclone, and each collectively controlled by one (1) baghouse, identified as BLD-1, for particulate control, including:

Unit ID	Construction Year	Rated Maximum Throughput (lb/hr)
PUL-1	2018	1,000
PUL-2	2019	1,000
PUL-3	2024	1,400

(f) Polyethylene product storage and handling operations, including six (6) bulk storage silos as follows:

Unit Description/ID	Construction Year	Rated Maximum Material Throughput (lb/hr)	Material Stored
Exterior Silo/ ES-1	2025	40,000	Polyethylene Grind
Exterior Silo/ ES-2	2018	40,000	Polyethylene Pellets
Exterior Silo/ ES-3	2019	40,000	Polyethylene Powder
Exterior Silo/ ES-4	2019	40,000	Polyethylene Powder
Exterior Silo/ ES-5	2019	40,000	Polyethylene Powder
Interior Silo/ IS-1	2021	18,000	Polyethylene Pellets

(g) Maintenance welding and torch cutting operations, including:

(1) One (1) MIG (carbon steel) welder, with a maximum electrode consumption rate of 8.2 pounds per hour, and exhausting indoors.

(2) One (1) oxyacetylene torch cutter, with a maximum metal cutting rate of 22.5 inches per minute, a maximum metal thickness cut of 0.625 inches, and exhausting indoors.

(h) One (1) natural gas-fired heater, identified as TC-1, constructed in 2012, with a maximum heat input capacity of 0.00125 MMBtu per hour.

(i) Three (3) evaporators, used for process cooling, including:

Unit ID	Airflow Rate (cfm)
EVP-1	18900
EVP-2	18900
EVP-3	30,000

(j) One (1) diesel tank, identified as DT-1, constructed in 2013, with a maximum design storage capacity of 500 gallons.

(k) One (1) propane tank, identified as PT-1, constructed in 2023, with a maximum design storage capacity of 1,000 gallons.

(l) Storage vessels for lubricating oils.

(m) Paved and unpaved roads.

SECTION B GENERAL CONDITIONS

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

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

B.2 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:

(a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as described in the application or the permit. The emission units covered in this permit may continue operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as described.

(b) If actual construction of the emission units differs from the construction described in the application, the source may not continue operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.

(c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

B.4 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

(a) This permit, M039-50728-02045, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.5 Term of Conditions [326 IAC 2-1.1-9.5]

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

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.6 Enforceability

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

B.7 Severability

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

B.8 Property Rights or Exclusive Privilege

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

B.9 Duty to Provide Information

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.10 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

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

B.11 Preventive Maintenance Plan [326 IAC 1-6-3]

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

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

The Permittee 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 Permittee 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 Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to M039-50728-02045 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

B.13 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

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

B.14 Permit Renewal [326 IAC 2-6.1-7]

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

(b) A timely renewal application is one that is:

(1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.15 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

(c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing an administrative amendment. [326 IAC 2-6.1-6(d)]

B.16 Source Modification Requirement

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

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

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

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air

pollution control equipment), practices, or operations regulated or required under this permit;

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

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

B.18 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.19 Annual Fee Payment [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ.

(b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-8590 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.20 Credible Evidence [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

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

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

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

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

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

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(c).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(d).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

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

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

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

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

(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
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date.

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

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

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.

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

Corrective Actions and Response Steps

C.12 Response to Excursions or Exceedances

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

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall record the reasonable response steps taken.

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

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

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline

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

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

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

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

(a) A record of all malfunctions, startups, or shutdowns of any emission unit or emission control equipment, that result in violations of applicable air pollution control regulations or applicable emission limitations must be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any emission unit or emission control equipment: 1) results in violations of applicable air pollution control regulations or applicable emissions limitations and 2) lasts more than one (1) hour, the condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages) or its equivalent. Notification must be made by telephone or other electronic means, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of the occurrence.

(c) Failure to report a malfunction under subsection (b) of this condition of any emission unit or emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction must be provided, including the items specified in 326 IAC 1-6-2(c)(3)(A) through (E).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

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

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

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

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

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

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

(b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(b) One (1) plastic scrap grinder, identified as GRI-1, constructed in 2023, with a rated maximum throughput of 4,000 pounds per hour, using a cyclone for particulate control, and exhausting to stack SV-2.

(d) One (1) recycled plastics blender, identified as BLD-1, constructed in 2022, with a rated maximum throughput of 3,000 pounds per hour, and exhausting to stack SV-3.

(f) Polyethylene product storage and handling operations, including six (6) bulk storage silos as follows:

Unit Description/ID	Construction Year	Rated Maximum Material Throughput (lb/hr)	Material Stored
Exterior Silo/ ES-1	2025	40,000	Polyethylene Grind
Exterior Silo/ ES-2	2018	40,000	Polyethylene Pellets
Exterior Silo/ ES-3	2019	40,000	Polyethylene Powder
Exterior Silo/ ES-4	2019	40,000	Polyethylene Powder
Exterior Silo/ ES-5	2019	40,000	Polyethylene Powder

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

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

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate matter (PM) emissions from the following facilities shall not exceed the pounds per hour limits when operating at the corresponding process weight rates in the table below:

Summary of Process Weight Rate Limits		
Process / Emission Unit	**P (ton/hr)**	**E (lb/hr)**
Plastic Scrap Grinder / GRI-1	2.00	6.52
Blender / BLD-1	1.50	5.38
Exterior Silo / ES-1	20.00	30.51
Exterior Silo / ES-2	20.00	30.51
Exterior Silo / ES-3	20.00	30.51
Exterior Silo / ES-4	20.00	30.51
Exterior Silo / ES-5	20.00	30.51

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

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

D.1.2 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 Permittee'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

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

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

Company Name:	Re-Gen, Inc.
Source Address:	221 W US 20, Suite C
City:	Middlebury, Indiana 46540
Phone #:	(574) 358-0240
MSOP #:	M039-50728-02045

I hereby certify that Re-Gen, Inc. is:
☐ still in operation.
☐ no longer in operation.

I hereby certify that Re-Gen, Inc. is:
☐ in compliance with the requirements of MSOP M039-50728-02045.
☐ not in compliance with the requirements of MSOP M039-50728-02045.

Authorized Individual (typed):	
Title:	
Signature:	**Date:**
Email Address:	**Phone:**

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:

Mail to: Permit Administration and Support Section
Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

Re-Gen, Inc.
221 W US 20
Suite C
Middlebury, Indiana 46540

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.

2. I hold the position of _____ for _____.
(Title) (Company Name)

3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____.
(Company Name)

4. I hereby certify that Re-Gen, Inc., 221 W US 20, Suite C, Middlebury, Indiana 46540, has constructed and will operate a plastic (polyethylene) extrusion facility on _____ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on September 2, 2026 and as permitted pursuant to New Source Construction Permit and Minor Source Operating Permit No. M039-50728-02045, Plant ID No. 039-02045 issued on _____.

5. **Permittee, please cross out the following statement if it does not apply:** Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature_____
Date_____

STATE OF INDIANA)
)SS
COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of Indiana on this _____ day of _____, 20_____. My Commission expires: _____.

Signature_____
Name_____ (typed or printed)

If the source location has been given an Enhanced 911 service address that is different than the source location address specified in the current permit, please provide the Enhanced 911 service address in the space below and please submit a permit application to modify the permit to specify the Enhanced 911 service address.

_____	_____	_____	_____
(Location Address*)*	*(City)*	*(State)*	*(ZIP Code)*

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FAX NUMBER: (317) 233-6865
EMAIL: AirCompl@idem.in.gov

Source Name: Re-Gen, Inc.
Source Address: 221 W US 20, Suite C, Middlebury, Indiana 46540
MSOP Permit No.: M039-50728-02045

For any malfunction lasting one (1) hour or longer, the Permittee must submit this form to the Office of Air Quality (OAQ), within four (4) daytime business hours of malfunction start.

If any of the following are not applicable, mark N/A. This form consists of two (2) pages.

This malfunction resulted in a violation of the following Indiana Administrative Code, permit condition, and/or permit limit and meets the definition of "malfunction" as listed on reverse side (e.g., 326 IAC 5-1, Permit Condition D.1.1, 40 CFR 60.62, etc.):

Describe affected facility/equipment/operation (e.g., Coating Line #2, Boiler D, Diesel engine, No. 3 smelter, etc.):
Control equipment (e.g., Baghouse B4, Thermal oxidizer for Paint Line #1, etc.):
Description of the malfunction and cause:

When the malfunction started:	Date (MM/DD/YYYY):
	Time (HH:MM):
When the malfunction was corrected or is expected to be corrected:	Date (MM/DD/YYYY):
	Time (HH:MM):

Type of pollutant(s) emitted (e.g., PM, PM10, PM2.5, VOC, etc.):
Estimated amount of pollutant(s) emitted during malfunction (e.g., VOC at 35 lbs/hr, 5 tons of PM, etc.):
Describe the corrective actions and interim control measures taken to minimize emissions (e.g., shut coating line down, isolated failing baghouse compartment, idled furnace operations until repairs completed, etc.):

Form completed by: _____

Title/position: _____

Signature:_____

Date:_____

Phone: _____

Email: _____

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1, 326 IAC 2-6.1, 326 IAC 2-7, or 326 IAC 2-8.

326 IAC 1-2-39 "Malfunction" definition

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

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a New Source Construction and Minor Source Operating Permit (MSOP)

Source Description and Location

Source Name:	**Re-Gen, Inc.**
Source Location:	**221 W US 20 Suite C, Middlebury, IN 46540**
County:	**Elkhart County**
SIC Code:	**5093 (Scrap and Waste Materials)**
Operation Permit No.:	**M039-50728-02045**
Permit Reviewer:	**Tori Tamburrino**

On September 2, 2026, the Office of Air Quality (OAQ) received an application from Re-Gen, Inc. related to the construction and operation of a new stationary plastic (polyethylene) extrusion facility.

Existing Approvals

There have been no previous approvals issued to this source.

County Attainment Status

The source is located in Elkhart County.

Pursuant to amendments to Indiana Code IC 13-17-3-14, effective July 1, 2023, a federal regulation that classifies or amends a designation of attainment, nonattainment, or unclassifiable for any area in Indiana under the federal Clean Air Act is effective and enforceable in Indiana on the effective date of the federal regulation.

Pollutant	Designation
SO_2	Unclassifiable or attainment effective April 9, 2018, for the 2010 primary 1-hour SO_2 standard. Better than national secondary standards effective March 3, 1978.
CO	Unclassifiable or attainment effective November 15, 1990.
O_3	Unclassifiable or attainment effective August 3, 2018, for the 2015 8-hour ozone standard.
$PM_{2.5}$	Unclassifiable or attainment effective April 15, 2015, for the 2012 annual $PM_{2.5}$ standard.
$PM_{2.5}$	Unclassifiable or attainment effective December 13, 2009, for the 2006 24-hour $PM_{2.5}$ standard.
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Unclassifiable or attainment effective January 29, 2012, for the 2010 NO_2 standard.
Pb	Unclassifiable or attainment effective December 31, 2011, for the 2008 lead standard.

(a) Ozone Standards
Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Elkhart County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements of Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) $PM_{2.5}$
Elkhart County has been classified as attainment for $PM_{2.5}$. Therefore, direct $PM_{2.5}$, SO_2, and NOx emissions were reviewed pursuant to the requirements of Prevention of Significant

Deterioration (PSD), 326 IAC 2-2.

(c) Other Criteria Pollutants
Elkhart County has been classified as attainment or unclassifiable in Indiana for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this type of operation is not one (1) of the twenty-eight (28) listed source categories under 326 IAC 2-2-1(ff)(1), 326 IAC 2-3-2(g), or 326 IAC 2-7-1(20)(B), and there is no applicable New Source Performance Standard or National Emission Standard for Hazardous Air Pollutants that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

The fugitive emissions of hazardous air pollutants (HAP) are counted toward the determination of Part 70 Permit (326 IAC 2-7) and MSOP (326 IAC 2-6.1) applicability and source status under Section 112 of the Clean Air Act (CAA).

The fugitive emissions of regulated air pollutants and hazardous air pollutants (HAP) are counted toward the determination of MSOP (326 IAC 2-6.1) applicability and source status under Section 112 of the Clean Air Act (CAA).

Greenhouse Gas (GHG) Emissions

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

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

Background and Description of Emission Units and Pollution Control Equipment

The Office of Air Quality (OAQ) has reviewed an application submitted by Re-Gen, Inc. on September 2, 2026, relating to continued operation of a stationary plastic (polyethylene) extrusion facility. This facility was constructed and began operating in 2012.

The following emission units that were constructed and/or operated without a permit:

(a) One (1) plastic scrap shredder, identified as SHR-1, constructed in 2022, with a rated maximum throughput of 3,000 pounds per hour, and exhausting to stack SV-1.

(b) One (1) plastic scrap grinder, identified as GRI-1, constructed in 2023, with a rated maximum throughput of 4,000 pounds per hour, using a cyclone for particulate control, and exhausting to stack SV-2.

(c) Three (3) pelletizing extruders, exhausting to stack SV-3, including:

Unit ID	Construction Year	Rated Maximum Throughput (lb/hr)
EXT-1	2020	2,000
EXT-2	2021	2,000
EXT-3	2022	2,000

(d) One (1) recycled plastics blender, identified as BLD-1, constructed in 2022, with a rated maximum throughput of 3,000 pounds per hour, and exhausting to stack SV-3.

(e) Three (3) pulverizers, each using a cyclone, and each collectively controlled by one (1) baghouse, identified as BLD-1, for particulate control, including:

Unit ID	Construction Year	Rated Maximum Throughput (lb/hr)
PUL-1	2018	1,000
PUL-2	2019	1,000
PUL-3	2024	1,400

(f) Polyethylene product storage and handling operations, including six (6) bulk storage silos as follows:

Unit Description/ID	Construction Year	Rated Maximum Material Throughput (lb/hr)	Material Stored
Exterior Silo/ ES-1	2025	40,000	Polyethylene Grind
Exterior Silo/ ES-2	2018	40,000	Polyethylene Pellets
Exterior Silo/ ES-3	2019	40,000	Polyethylene Powder
Exterior Silo/ ES-4	2019	40,000	Polyethylene Powder
Exterior Silo/ ES-5	2019	40,000	Polyethylene Powder
Interior Silo/ IS-1	2021	18,000	Polyethylene Pellets

(g) Maintenance welding and torch cutting operations, including:

(1) One (1) MIG (carbon steel) welder, with a maximum electrode consumption rate of 8.2 pounds per hour, and exhausting indoors.

(2) One (1) oxyacetylene torch cutter, with a maximum metal cutting rate of 22.5 inches per minute, a maximum metal thickness cut of 0.625 inches, and exhausting indoors.

(h) One (1) natural gas-fired heater, identified as TC-1, constructed in 2012, with a maximum heat input capacity of 0.00125 MMBtu per hour.

(i) Three (3) evaporators, used for process cooling, including:

Unit ID	Year of Construction	Airflow Rate (cfm)
EVP-1	2021	18,900
EVP-2	2022	18,900
EVP-3	2022	30,000

(j) One (1) diesel tank, identified as DT-1, constructed in 2013, with a maximum design storage capacity of 500 gallons.

(k) One (1) propane tank, identified as PT-1, constructed in 2023, with a maximum design storage capacity of 1,000 gallons.

(l) Storage vessels for lubricating oils.

(m) Paved and unpaved roads.

Enforcement Issues

IDEM is aware that equipment has been constructed and/or 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 and/or operating rules.

Emission Calculations

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

Permit Level Determination – MSOP

This table reflects the unrestricted potential emissions of the source. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

	Unrestricted Source-Wide Emissions (ton/year)							
	PM[1]	**PM_{10}[1]**	**$PM_{2.5}$[1, 2]**	**SO_2**	**NO_X**	**VOC**	**CO**	**Total HAPs**
Total PTE of Entire Source Excluding Fugitives*	34.59	15.05	15.05	3.22E-06	5.37E-04	4.97	4.51E-04	0.01
Title V Major Source Thresholds	--	100	100	100	100	100	100	25
Total PTE of Entire Source Including Source-Wide Fugitives*	40.33	16.49	15.24	3.22E-06	5.37E-04	4.97	4.51E-04	0.01
MSOP Thresholds	25	25	25	25	25	25	100	25

[1]Under the Part 70 Permit program (40 CFR 70), PM_{10} and $PM_{2.5}$, not particulate matter (PM), are each considered as a "regulated air pollutant."

[2]$PM_{2.5}$ listed is direct $PM_{2.5}$.

[3]Single highest source-wide HAP.

*Fugitive HAP emissions are always included in the source-wide emissions.

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

(a) The potential to emit (as defined in 326 IAC 2-1.1-1) of PM is equal to or greater than the MSOP threshold levels. The potential to emit of all other regulated air pollutants from the entire source is less the MSOP threshold levels. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. The source will be issued an Minor Source Operating Permit (MSOP).

(b) The potential to emit (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1) 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. The source will be issued an Minor Source Operating Permit (MSOP).

Federal Rule Applicability Determination

Federal rule applicability for this source has been reviewed as follows:

New Source Performance Standards (NSPS):

(a) The requirements of the New Source Performance Standard for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984, and On or Before October 4, 2023, 40 CFR 60, Subpart Kb and 326 IAC 12, are not included in the permit for the diesel tank (DT-1) and the propane tank (PT-1), because even though these tanks were constructed after July 23, 1984, and before October 4, 2023, each tank has a capacity of less than 75 cubic meters (m^3) (19,812 gallons).

(b) The requirements of the New Source Performance Standard for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After October 4, 2023, 40 CFR 60, Subpart Kc and 326 IAC 12, are not included in the permit for the diesel tank (DT-1) and the propane tank (PT-1), because each of these tanks have a capacity of less than 20,000 gallons (75.7 cubic meters (m^3)) and were constructed before October 4, 2023.

(c) The requirements of the New Source Performance Standard for Metallic Mineral Processing Plants, 40 CFR 60, Subpart LL and 326 IAC 12, are not included in the permit for this source, because this source does not process metallic minerals, it processes plastic.

(d) The requirements of the New Source Performance Standard for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry, 40 CFR 60, Subpart DDD and 326 IAC 12, are not included in the permit for this source, because this source does not manufacture polypropylene, polyethylene, polystyrene, or poly (ethylene terephthalate) as defined in 40 CFR 60.561.

(e) The requirements of the New Source Performance Standard for Nonmetallic Mineral Processing Plants, 40 CFR 60, Subpart OOO and 326 IAC 12, are not included in the permit for this source, because as specified in §60.670(a)(2) it does not contain facilities located in underground mines, crushers or grinding mills above ground, or wet processing operations. It has shredders for plastic (polyethylene) material.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP):

(a) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial Process Cooling Towers, 40 CFR 63, Subpart Q and 326 IAC 20-4 are not included in the permit for the evaporators (EVP-1, EVP-2, and EVP-3), since each of these units are cooling processes that do not operate with chromium-based water treatment chemicals, and this source is not a major source of HAPs.

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

Compliance Assurance Monitoring (CAM):

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 - Entire Source

State rule applicability for this source has been reviewed as follows:

326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
MSOP applicability is discussed under the PTE of the Entire Source After Issuance of the MSOP section of this document.

326 IAC 2-2 (PSD)
PSD applicability is discussed under the PTE of the Entire Source After Issuance of the MSOP section of this document.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The operation of this source will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)
This source is not subject to 326 IAC 2-6 (Emission Reporting), because it is not required to have an operating permit pursuant to 326 IAC 2-7 (Part 70), it is not located in Lake or Porter County, and its potential to emit lead is less than 5 tons per year. Therefore, this rule does not apply.

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.

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.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
This source is not subject to the requirements of 326 IAC 6-5, because the source has potential fugitive particulate emissions of less than twenty-five (25) tons per year.

326 IAC 6.5 (Particulate Matter Limitations Except Lake County)
Pursuant to 326 IAC 6.5-1-1(a), this source (located in Elkhart County) is not subject to the requirements of 326 IAC 6.5 because it is not located in one of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.

326 IAC 6.8 (Particulate Matter Limitations for Lake County)
Pursuant to 326 IAC 6.8-1-1(a), this source (located in Elkhart County) is not subject to the requirements of 326 IAC 6.8 because it is not located in Lake County.

326 IAC 6.8 (Lake County: Fugitive Particulate Matter)
Pursuant to 326 IAC 6.8-10-1, this source (located in Elkhart County) is not subject to the requirements of 326 IAC 6.8-10 because it is not located in Lake County.

State Rule Applicability – Individual Facilities

State rule applicability for this source has been reviewed as follows:

Shredding (SHR-1)

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), the plastic shredder (SHR-1) is not subject to the requirements of 326 IAC 6-3, since the plastic shredder (SHR-1) has potential emissions of less than five hundred fifty-one thousandths (0.551) pounds per hour.

Grinding (GRI-1)

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(a), the requirements of 326 IAC 6-3-2 are applicable to the plastic grinder (GRI-1), since it is a manufacturing process not exempted from this rule under 326 IAC 6-3-1(b) and is not subject to a particulate matter limitation that is as stringent as or more stringent than the particulate limitation established in this rule as specified in 326 IAC 6-3-1(c).

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the plastic grinder (GRI-1) shall not exceed 6.52 pounds per hour when operating at a process weight rate of 2.00 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:
>
> $E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and P = process weight rate in tons per hour

Based on calculations, the cyclone is not needed to comply with this limit.

Extrusion (EXT-1 through EXT-3)

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), the extruders (EXT-1 through EXT-3) are not subject to the requirements of 326 IAC 6-3, since the extruders (EXT-1 through EXT-3) have potential emissions of less than five hundred fifty-one thousandths (0.551) pounds per hour, each.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Even though the extruders (EXT-1 through EXT-3) were constructed after January 1, 1980, each of these units are not subject to the requirements of 326 IAC 8-1-6 because each had unlimited VOC potential emissions that are less than twenty-five (25) tons per year.

Blending (BLD-1)

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(a), the requirements of 326 IAC 6-3-2 are applicable to the polyethylene blender (BLD-1), since it is a manufacturing process not exempted from this rule under 326 IAC 6-3-1(b) and is not subject to a particulate matter limitation that is as stringent as or more stringent than the particulate limitation established in this rule as specified in 326 IAC 6-3-1(c).

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the polyethylene blender (BLD-1) shall not exceed 5.38 pounds per hour when operating at a process weight rate of 1.50 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:

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

Based on calculations, control equipment is not needed to comply with this limit.

Pulverization (PUL-1 through PUL-3)

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), the pulverizers (PUL-1 through PUL-3) are not subject to the requirements of 326 IAC 6-3, since the pulverizers (PUL-1 through PUL-3) have potential emissions of less than five hundred fifty-one thousandths (0.551) pounds per hour, each.

Storage Silos (ES-1 through ES-5, IS-1)

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

(a) Pursuant to 326 IAC 6-3-1(b)(14), the indoor silo (IS-1) is not subject to the requirements of 326 IAC 6-3, since it has potential emissions of less than five hundred fifty-one thousandths (0.551) pounds per hour.

(b) Pursuant to 326 IAC 6-3-1(a), the requirements of 326 IAC 6-3-2 are applicable to the exterior silos (ES-1 through ES-5), since they are manufacturing processes not exempted from this rule under 326 IAC 6-3-1(b) and are not subject to a particulate matter limitation that is as stringent as or more stringent than the particulate limitation established in this rule as specified in 326 IAC 6-3-1(c).

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate matter (PM) from the following facilities shall not exceed the pounds per hour limits when operating at the corresponding process weight rates in the table below:

Summary of Process Weight Rate Limits		
Process / Emission Unit	**P (ton/hr)**	**E (lb/hr)**
Exterior Silo / ES-1	20.00	30.51
Exterior Silo / ES-2	20.00	30.51
Exterior Silo / ES-3	20.00	30.51
Exterior Silo / ES-4	20.00	30.51
Exterior Silo / ES-5	20.00	30.51

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

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

Based on calculations, control equipment is not needed to comply with this limit.

Welding and Torch Cutting

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

(a) Pursuant to 326 IAC 6-3-1(b)(9), the welding operation is not subject to the requirements of 326 IAC 6-3, since this welding operation consumes less than six hundred twenty-five (625) pounds or rod or wire per day.

(b) Pursuant to 326 IAC 6-3-1(b)(10), the torch cutting operation is not subject to the requirements of 326 IAC 6-3, since this torch cutting operation cuts less than three thousand four hundred (3,400) inches per hour of stock one (1) inch thickness or less.

Natural Gas Combustion (TC-1)

326 IAC 6-2-1 (Particulate Emission Limitations for Sources of Indirect Heating)
The natural gas-fired heater (TC-1) is not subject to 326 IAC 6-2 since this natural gas-fired heater (TC-1) is not a source of indirect heating, as defined by 326 IAC 1-2-19.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1.5(2), the natural gas-fired heater (TC-1) is not subject to the requirements of 326 IAC 6-3, since this unit is not considered a manufacturing process and, pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)
The natural gas-fired heater (TC-1) is not subject to 326 IAC 326 IAC 7-1.1 because it has a potential to emit (or limited potential to emit) sulfur dioxide (SO2) of less than 25 tons per year or 10 pounds per hour.

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Even though the natural gas-fired heater (TC-1) was constructed after January 1, 1980, it is not subject to the requirements of 326 IAC 8-1-6 because its unlimited VOC potential emissions are less than twenty-five (25) tons per year.

326 IAC 9-1 (Carbon Monoxide Emission Limits)
The requirements of 326 IAC 9-1 do not apply to the natural gas-fired heater (TC-1), because this source does not operate a catalyst regeneration petroleum cracking system or a petroleum fluid coker, grey iron cupola, blast furnace, basic oxygen steel furnace, or other ferrous metal smelting equipment.

326 IAC 10-3 (Nitrogen Oxide Reduction Program for Specific Source Categories)
The requirements of 326 IAC 10-3 do not apply to the natural gas-fired heater (TC-1), since this unit is not a blast furnace gas-fired boiler, a Portland cement kiln, or a facility specifically listed under 326 IAC 10-3-1(a)(2).

Diesel Tank (DT-1) and Propane Tank (PT-1)

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Even though the diesel tank (DT-1) and the propane tank (PT-1) were constructed after January 1, 1980, these units are not subject to the requirements of 326 IAC 8-1-6 because each unit has unlimited VOC potential emissions less than twenty-five (25) tons per year.

326 IAC 8-4-3 (Petroleum Sources: Petroleum Liquid Storage Facilities)
Pursuant to 326 IAC 8-4-1(c) and 326 IAC 8-4-3(a), the diesel tank (DT-1) and the propane tank (PT-1) are each not subject to the requirements of 326 IAC 8-4-3, since each of these petroleum liquid storage tanks have a maximum design storage capacity of less than one hundred fifty thousand (150,000) liters (thirty-nine thousand (39,000) gallons)) and contain volatile organic compounds whose true vapor pressure is less than 10.5 kPa (1.52 psi).

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)
This rule applies to stationary vessels used to store volatile organic liquid (VOL) that are located in Clark, Floyd, Lake, or Porter County. This source is located in Elkhart County. Therefore, the requirements of 326 IAC 8-9 are not applicable to the diesel tank (DT-1) and the propane tank (PT-1).

Compliance Determination and Monitoring Requirements

(a) The Compliance Determination and Monitoring Requirements applicable to this source are as follows:

There are no compliance requirements applicable to this source.

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 September 2, 2026.

The construction and operation of this source shall be subject to the conditions of the attached proposed New Source Construction and MSOP No. M039-50728-02045. The staff recommends to the Commissioner that the New Source Construction and MSOP be approved.

IDEM Contact

(a) If you have any questions regarding this permit, please contact Tori Tamburrino, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, Indiana Government Center North, 100 North Senate Avenue, Room 13W, Indianapolis, Indiana 46204-2251, or by telephone at (317) 233-0043 or (800) 451-6027, and ask for Tori Tamburrino or (317) 233-0043.

(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 Air Permits page on the Internet at: https://www.in.gov/idem/airpermit/public-participation/; and the Citizens' Guide to IDEM on the Internet at: https://www.in.gov/idem/about/citizens-guide-to-idem.

Appendix A: Emission Calculations
PTE Summary

Company Name: Re-Gen, Inc.
Source Address: 221 W US 20 Suite C, Middlebury, IN 46540
Permit Number: M039-50728-02045
Reviewer: Tori Tamburrino

Uncontrolled Potential to Emit (tons/yr)								
Emissions Unit	**PM**	**PM10**	**PM2.5 ***	**SO_2**	**NOx**	**VOC**	**CO**	**Total HAPs****
Shredding and Grinding (SHR-1 and GRI-1)	5.37	5.37	5.37	--	--	--	--	--
Extrusion (EXT-1 through EXT-3)	1.26	1.26	1.26	--	--	4.97	--	0.01
Blending (BLD-1)	3.94	1.97	1.97	--	--	--	--	--
Pulverization (PUL-1 through PUL-3)	2.61	2.61	2.61	--	--	--	--	--
Storage Silos (ES-1 through ES-5, IS-1)	20.62	3.06	3.06	--	--	--	--	--
Welding and Torch Cutting	0.80	0.80	0.80	--	--	--	--	0.02
NG Combustion (TC-1)	1.02E-05	4.08E-05	4.08E-05	3.22E-06	5.37E-04	2.95E-05	4.51E-04	1.01E-05
Evaporators (EVP-1 through EVP-3)	--	--	--	--	--	negl.	--	negl.
Diesel Tank (DT-1)	--	--	--	--	--	negl.	--	negl.
Propane Tank (PT-1)	--	--	--	--	--	negl.	--	negl.
Total Excluding Fugitives	**34.59**	**15.05**	**15.05**	**3.22E-06**	**5.37E-04**	**4.97**	**4.51E-04**	**0.03**
Fugitive Emissions								
Paved Roads	*1.38*	*0.28*	*0.07*	--	--	--	--	--
Unpaved Roads	*4.36*	*1.16*	*0.12*	--	--	--	--	--
Total Fugitives	*5.73*	*1.44*	*0.18*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
Total Including Fugitives	**40.33**	**16.49**	**15.24**	**3.22E-06**	**5.37E-04**	**4.97**	**4.51E-04**	**0.03**

** PM2.5 listed is direct PM2.5*
***Fugitve HAP emissions are always included in the source-wide emissions*

Appendix A: Emission Calculations
Plastic Scrap Shredding and Grinding Operations

Company Name: **Re-Gen, Inc.**
Source Address: **221 W US 20 Suite C, Middlebury, IN 46540**
Permit Number: **M039-50728-02045**
Reviewer: **Tori Tamburrino**

Emission Unit	Rated Maximum Throughput (lb/hr)	Rated Maximum Throughput (ton/hr)	PM/PM10/PM2.5 Emission Factor (lb/ton)	Uncontrolled PTE of PM/PM10/PM2.5 (lb/hr)	(ton/yr)
SHR-1 (Shredder 1)	3,000	1.50	3.50E-01	0.53	2.30
GRI-1 (Grinder 1)	4,000	2.00	3.50E-01	0.70	3.07
			Total:	**1.23**	**5.37**

Note:

There are no emission factors for plastic scrap grinding or shredding process in the USEPA AP-42 or WebFIRE databases. Therefore, the PM, PM10, and PM2.5 emission factors used to quantify emissions from the grinding and shredding processes are based on AP-42, 4th edition, Volume 1, 1985 (Table 10.3-1) and FIRE for SCC 30700802 (revoked 1/1/2002) for log sawing. These emission factors have been used in numerous OAQ permit reviews as an emission factor for plastic grinding as well as for wood grinding.

Methodology:

Uncontrolled PTE (lb/hr) = Rated Maximum Throughput (ton/hr) x Emission Factor (lb/ton)

Uncontrolled PTE (ton/yr) = Uncontrolled PTE (lb/hr) x 8760 (hr/yr) / 2000 (lb/ton)

Appendix A: Emission Calculations
Extruders (Particulate, VOC, and HAP Emissions)

Company Name: Re-Gen, Inc.
Source Address: 221 W US 20 Suite C, Middlebury, IN 46540
Permit Number: M039-50728-02045
Reviewer: Tori Tamburrino

Uncontrolled Potential to Emit of Particulates and VOC

		Emission Factors					
	Rated Maximum Throughput	PM/PM10/PM2.5	VOC	Uncontrolled PTE of PM/PM10/PM2.5		Uncontrolled PTE of VOC	
Emission Unit	(lb/hr)	(lb/ton)	(lb/ton)	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)
EXT-1 (extruder #1)	2,000	0.096	0.378	0.10	0.42	0.38	1.66
EXT-2 (extruder #2)	2,000	0.096	0.378	0.10	0.42	0.38	1.66
EXT-3 (extruder #3)	2,000	0.096	0.378	0.10	0.42	0.38	1.66
			Total:	**0.29**	**1.26**	**1.13**	**4.97**

Note:

There are no emission factors for the plastic extrusion process in the USEPA AP-42 or WebFIRE databases. PM emission factor is based on Extruder - Plastic Product Manufacturing SCC #3-08-010-02, Emission Calculation Fact Sheet #9847, *Plastic Production and Products Manufacturing*, Michigan DEQ, rev. 11-05.

Assume PM = PM10 = PM2.5.

The emission factor for VOC was taken from the Journal of Air and Waste Management Association, titled "Sampling and Analysis of Volatile Organic Compounds Evolved During Thermal Processing of Acrylonitrile Butadiene Styrene Composite Resins", September 1995, Volume 45. The emission factor, reported as 189 ug/g (microgram per gram), was converted as follows: [189 (ug/g) * (1.0 x 10-6 (lbs/lb) / 1.0 (ug/g)) * (2000lbs/1ton)] = 0.378 lbs/ton

Methodology:

Uncontrolled PTE (lb/hr) = Rated Maximum Throughput (lb/hr) x Emission Factor (lb/ton) / 2000 (lb/ton)
Uncontrolled PTE (ton/yr) = Uncontrolled PTE (lb/hr) x 8760 (hr/yr) / 2000 (lb/ton)

Uncontrolled Potential to Emit of Hazardous Air Pollutants (HAPs)

		*Emission Factors (lb/MMlbs)**					
		Formaldehyde	*Acrolein*	*Acetaldehyde*	*Propionaldehyde*	*Acrylic Acid*	
		0.2	*0.02*	*0.16*	*0.05*	*0.02*	
	Maximum Capacity	Formaldehyde	Acrolein	Acetaldehyde	Propionaldehyde	Acrylic Acid	Total HAPs
Emission Unit ID	(lb/hr)	(ton/yr)	(ton/yr)	(ton/yr)	(ton/yr)	(ton/yr)	(ton/yr)
EXT-1 (extruder #1)	2,000	1.75E-03	1.75E-04	1.40E-03	4.38E-04	1.75E-04	3.94E-03
EXT-2 (extruder #2)	2,000	1.75E-03	1.75E-04	1.40E-03	4.38E-04	1.75E-04	3.94E-03
EXT-3 (extruder #3)	2,000	1.75E-03	1.75E-04	1.40E-03	4.38E-04	1.75E-04	3.94E-03
	Total:	**5.26E-03**	**5.26E-04**	**4.20E-03**	**1.31E-03**	**5.26E-04**	**1.18E-02**

*Emission Factor from Development of Emission Factors for Polyethylene, JAWMA, Table 7, page 578, Vol. 46

Methodology

Potential to Emit (ton/yr) = [(Emission Factor (lb/MMlbs)/1000000) * Maximum Capacity (lb/hr)] * 8760 (hr/yr) / 2000 (lb/ton)

Appendix A: Emission Calculations
Blending/Mixing of Recycled Plastics (Polyethylene)

Company Name: **Re-Gen, Inc.**
Source Address: **221 W US 20 Suite C, Middlebury, IN 46540**
Permit Number: **M039-50728-02045**
Reviewer: **Tori Tamburrino**

		Emission Factors					
Emission Unit	Rated Maximum Throughput (lb/hr)	PM (lb/ton)	PM10/PM2.5 (lb/ton)	Uncontrolled PTE of PM (lb/hr)	Uncontrolled PTE of PM10/PM2.5 (lb/hr)	Uncontrolled PTE of PM (ton/yr)	Uncontrolled PTE of PM10/PM2.5 (ton/yr)
BLD-1 (blender #1)	3,000	0.60	0.30	0.90	0.45	3.94	1.97
			Total:	**0.90**	**0.45**	**3.94**	**1.97**

Note:
The PM emission factors are from WebFIRE for Fiberglass Manufacturing - Raw material: Mixing/Weighing (SCC 30501223).
Methodology:
Uncontrolled PTE (lb/hr) = Rated Maximum Throughput (lb/hr) x Emission Factor (lb/ton) / 2000 (lb/ton)
Uncontrolled PTE (ton/yr) = Uncontrolled PTE (lb/hr) x 8760 (hr/yr) / 2000 (lb/ton)

Appendix A: Emission Calculations
Plastic (Polyethylene) Pulverizing

Company Name: **Re-Gen, Inc.**
Source Address: **221 W US 20 Suite C, Middlebury, IN 46540**
Permit Number: **M039-50728-02045**
Reviewer: **Tori Tamburrino**

Emission Unit	Rated Maximum Throughput (lb/hr)	Rated Maximum Throughput (ton/hr)	PM/PM10/PM2.5 Emission Factor (lb/ton)	Control Efficiency (%)	Uncontrolled PTE of PM/PM10/PM2.5 (lb/hr)	Uncontrolled PTE of PM/PM10/PM2.5 (ton/yr)	Controlled PTE of PM/PM10/PM2.5 (lb/hr)	Controlled PTE of PM/PM10/PM2.5 (ton/yr)
PUL-1 (pulverizer 1)	1,000	0.50	0.35	90%	0.18	0.77	0.02	0.08
PUL-2 (pulverizer 2)	1,000	0.50	0.35	90%	0.18	0.77	0.02	0.08
PUL-3 (pulverizer 3)	1,400	0.70	0.35	90%	0.25	1.07	0.02	0.11
Total:					**0.60**	**2.61**	**0.06**	**0.26**

Note:

There are no emission factors for plastic scrap grinding or shredding process in the USEPA AP-42 or WebFIRE databases. Therefore, the PM, PM10, and PM2.5 emission factors used to quantify emissions from the grinding and shredding processes are based on AP-42, 4th edition, Volume 1, 1985 (Table 10.3-1) and FIRE for SCC 30700802 (revoked 1/1/2002) for log sawing. These emission factors have been used in numerous OAQ per reviews as an emission factor for plastic grinding as well as for wood grinding.

Assuming PM = PM10 = PM2.5

Methodology:

Uncontrolled PTE (lb/hr) = Rated Maximum Throughput (ton/hr) x Emission Factor (lb/ton)

Uncontrolled PTE (ton/yr) = Uncontrolled PTE (lb/hr) x 8760 (hr/yr) / 2000 (lb/ton)

Controlled PTE (lb/hr) = Uncontrolled PTE (lb/hr) x (1 - Control Efficiency (%))

Controlled PTE (ton/yr) = Controlled PTE (lb/hr) x 8760 (hr/yr) / 2000 (lb/ton)

Appendix A: Emission Calculations
Storage Silos and PE Handling

Company Name: **Re-Gen, Inc.**
Source Address: **221 W US 20 Suite C, Middlebury, IN 46540**
Permit Number: **M039-50728-02045**
Reviewer: **Tori Tamburrino**

Emission Unit	Rated Maximum Loading / Unloading Throughput per Silo (lb/hr)	Rated Maximum Loading / Unloading Throughput per Silo (ton/hr)	PM Emission Factor (lb/ton)	PM10 / PM2.5 Emission Factor (lb/ton)	Uncontrolled PTE of PM (lb/hr)	Uncontrolled PTE of PM (ton/yr)	Uncontrolled PTE of PM10/PM2.5 (lb/hr)	Uncontrolled PTE of PM10/PM2.5 (ton/yr)
ES-1 (Exterior Silo 1) grind	40,000	20.00	0.0432	0.0064	0.86	3.78	0.13	0.56
ES-2 (Exterior Silo 2) pellets	40,000	20.00	0.0432	0.0064	0.86	3.78	0.13	0.56
ES-3 (Exterior Silo 3) powder	40,000	20.00	0.0432	0.0064	0.86	3.78	0.13	0.56
ES-4 (Exterior Silo 4) powder	40,000	20.00	0.0432	0.0064	0.86	3.78	0.13	0.56
ES-5 (Exterior Silo 5) powder	40,000	20.00	0.0432	0.0064	0.86	3.78	0.13	0.56
IS-1 (Indoor Silo 1) pellets	18,000	9.00	0.0432	0.0064	0.39	1.70	0.06	0.25
				Total:	**4.71**	**20.62**	**0.70**	**3.06**

Notes:
Source of PM emission factor from, "Report on the North Silo Particulate Test Program - Conducted for Smurfit Stone Container Corporation at their Facility Located in Schaumburg, Illinois", Report No. 2304, April 5, 2006. Test and report prepared by AIRTECH Environmental Services, Inc., Bensenville, Illinois. Summary of Results: Average emission rate from two test runs = 0.00368 lb/hr; Run 1 lasted 45 minutes and Run 2 lasted 43 minutes with a total time of 88 minutes, which is equivalent to 1.46 hours. One bulk resin loading truck assumed to weigh 50,000 lbs (ref. World Polymers Industry; (www.worldpolymers.com/definitions.html)); 0.00368 lbs/hr * 1.46 hr = 0.0054 lbs PM; (0.0054 lbs PM) / (50000 lbs * 1 ton/2000lbs) = 0.000216 lbs/ton. This particulate EF is calculated after control. Assuming a bin filter control efficiency of 99.5%, the uncontrolled particulate EF is calculated as follows: 0.000216 lb/ton / (1-0.995) = 0.0432 lb/ton.

PM10/PM2.5 emission factors are from WebFire SCC 30502503.

Methodology:
Uncontrolled PTE (lb/hr) = Rated Maximum Loading/Unloading Throughput Per Silo (ton/hr) x Emission Factor (lb/ton)
Uncontrolled PTE (ton/yr) = Uncontrolled PTE (lb/hr) x 8760 (hr/yr) / 2000 (lb/ton)

Appendix A: Emissions Calculations
Welding and Thermal Cutting

Company Name: Re-Gen, Inc.
Source Address: 221 W US 20 Suite C, Middlebury, IN 46540
Permit Number: M039-50728-02045
Reviewer: Tori Tamburrino

Process	Number of Stations	Maximum electrode consumption per station (lbs/hr)	Maximum electrode consumption per station (lbs/day)		Emission Factors* (lb pollutant/lb electrode)				Potential to Emit (lbs/hr)				HAPs (lbs/hr)
Welding					PM/PM10/PM2.5	Mn	Ni	Cr	PM/PM10/PM2.5	Mn	Ni	Cr	
Metal Inert Gas (MIG)(carbon steel)	1	8.2	196.8		0.0055	0.0005			0.045	4.1E-03	0	0	4.1E-03
	Number of Stations	Maximum Metal Thickness Cut (inches)	Maximum Metal Cutting Rate (inches/minute)	Maximum Metal Cutting Rate (inches/hour)	Emission Factors (lb pollutant/1,000 inches cut, 1 inch thick)**				Potential to Emit (lbs/hr)				HAPs (lbs/hr)
Flame Cutting					PM/PM10/PM2.5	Mn	Ni	Cr	PM/PM10/PM2.5	Mn	Ni	Cr	
Oxyacetylene	1	0.625	22.5	1350	0.1622	0.0005	0.0001	0.0003	0.137	4.2E-04	8.4E-05	2.5E-04	0.001
Totals													
Potential to Emit (lbs/hr)									0.18	4.5E-03	8.4E-05	2.5E-04	4.9E-03
Potential to Emit (lbs/day)									4.37	0.109	2.0E-03	0.006	0.117
Potential to Emit (tons/year)									0.80	2.0E-02	3.7E-04	1.1E-03	2.1E-02

Methodology:
*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.
**Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted).
Therefore, the emission factor for plasma cutting is for 8 mm thick rather than 1 inch, and the maximum metal thickness is not used in calculting the emissions.
Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm thick
Plasma cutting: Potential to Emit (lbs/hr) = (Number of stations) x (Maximum Metal Cutting Rate, inches/minute) x (60 minutes/hr) x (Emission Factor, lb pollutant/1,000 inches cut, 8 mm thick)
Cutting: Potential to Emit (lbs/hr) = (Number of stations) x (Maximum Metal Thickness, inches) x (Maximum Metal Cutting Rate, inches/minute) x (60 minutes/hour) x (Emission Factor, lb pollutant/1,000 inches cut, 1" thick)
Welding: Potential to Emit (lbs/hr) = (Number of stations) x (Maximum electode consumption per station, lbs/hr) x (Emission Factor, lb pollutant/lb of electrode used)
Potential to Emit (lbs/day) = Potential to Emit (lbs/hr) x (24 hours/day)
Potential to Emit (tons/year) = Potential to Emit (lbs/hr) x (8,760 hours/year) x (1 ton/2,000 lbs)

Appendix A: Emissions Calculations
Natural Gas Combustion (≤ 100 MMBtu/hr)

Company Name: **Re-Gen, Inc.**
Source Address: **221 W US 20 Suite C, Middlebury, IN 46540**
Permit Number: **M039-50728-02045**
Reviewer: **Tori Tamburrino**

Unit ID	Rated Maximum Heat Input Capacity (MMBtu/hr)
TC-1	0.00125
Total:	0.00125

Heat Input Capacity MMBtu/hr	HHV mmBtu / mmscf	Potential Throughput MMCF/yr
1.25E-03	1020	1.1E-02

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	1.02E-05	4.08E-05	4.08E-05	3.22E-06	5.37E-04	2.95E-05	4.51E-04

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

Methodology
All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu; MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Potential Emission (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Hazardous Air Pollutants (HAPs)

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.1E-08	6.4E-09	4.0E-07	9.7E-06	1.8E-08

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	2.7E-09	5.9E-09	7.5E-09	2.0E-09	1.1E-08

Potential Emission of Combined HAPs (tons/yr)	**1.0E-05**	
Potential Emission of Highest Single HAP (tons/yr)	**9.7E-06**	**Hexane**

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

Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads

Company Name: Re-Gen, Inc.
Source Address: 221 W US 20 Suite C, Middlebury, IN 46540
Permit Number: M039-50728-02045
Reviewer: Tori Tamburrino

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 Informtation (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 of Loaded Vehicle (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)	24.0	1.0	24.0	2.0	48.0	1000	0.189	4.5	1659.1
Vehicle (leaving plant) (one-way trip)	24.0	1.0	24.0	2.0	48.0	1000	0.189	4.5	1659.1
Moving Truck (2-axle) (26' Straight Truck) (entering plant) (one-way trip)	1.0	1.0	1.0	6.3	6.3	1000	0.189	0.2	69.1
Moving Truck (2-axle) (26' Straight Truck) (leaving plant) (one-way trip)	1.0	1.0	1.0	6.3	6.3	1000	0.189	0.2	69.1
Freight Truck (5 axles) (entering plant) (one-way trip)	10.0	1.0	10.0	15.0	150.0	1000	0.189	1.9	691.3
Freight Truck (5 axles) (leaving plant) (one-way trip)	10.0	1.0	10.0	15.0	150.0	1000	0.189	1.9	691.3
Pickup Truck (entering plant) (one-way)	3.0	1.0	3.0	2.5	7.5	1000	0.189	0.6	207.4
Pickup Truck (leaving plant) (one-way)	3.0	1.0	3.0	2.5	7.5	1000	0.189	0.6	207.4
SUV (entering plant) (one-way)	5.0	1.0	5.0	3.0	15.0	1000	0.189	0.9	345.6
SUV (leaving plant) (one-way)	5.0	1.0	5.0	3.0	15.0	1000	0.189	0.9	345.6
Grain Tanker (entering plant) (one-way)	1.0	1.0	1.0	15.0	15.0	1000	0.189	0.2	69.1
Grain Tanker (leaving plant) (one-way)	1.0	1.0	1.0	15.0	15.0	1000	0.189	0.2	69.1
		Totals	**88.0**		**483.6**			**16.7**	**6083.3**

Average Vehicle Weight Per Trip = 5.5 tons/trip
Average Miles Per Trip = 0.19 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 =	5.5	5.5	5.5	tons = average vehicle weight
sL =	9.7	9.7	9.7	g/m^2 = 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 =	0.494	0.099	0.0243	lb/mile
Mitigated Emission Factor, Eext =	0.452	0.090	0.0222	lb/mile

Process	Mitigated PTE of PM (Before Control) (tons/yr)	Mitigated PTE of PM10 (Before Control) (tons/yr)	Mitigated PTE of PM2.5 (Before Control) (tons/yr)
Vehicle (entering plant) (one-way trip)	0.38	0.08	0.02
Vehicle (leaving plant) (one-way trip)	0.38	0.08	0.02
Moving Truck (2-axle) (26' Straight Truck) (entering plant) (one-way trip)	0.02	0.00	0.00
Moving Truck (2-axle) (26' Straight Truck) (leaving plant) (one-way trip)	0.02	0.00	0.00
Freight Truck (5 axles) (entering plant) (one-way trip)	0.16	0.03	0.01
Freight Truck (5 axles) (leaving plant) (one-way trip)	0.16	0.03	0.01
Pickup Truck (entering plant) (one-way)	0.05	0.01	0.00
Pickup Truck (leaving plant) (one-way)	0.05	0.01	0.00
SUV (entering plant) (one-way)	0.08	0.02	0.00
SUV (leaving plant) (one-way)	0.08	0.02	0.00
Grain Tanker (entering plant) (one-way)	0.02	0.00	0.00
Grain Tanker (leaving plant) (one-way)	0.02	0.00	0.00
Totals	**1.38**	**0.28**	**0.07**

Methodology

Total Weight driven per day (ton/day)	= [Maximum Weight of Loaded Vehicle (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 (Before Control) (tons/yr)	= [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
Mitigated PTE (After Control) (tons/yr)	= [Mitigated PTE (Before Control) (tons/yr)] * [1 - Dust Control Efficiency]

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

Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads

Company Name: Re-Gen, Inc.
Source Address: 221 W US 20 Suite C, Middlebury, IN 46540
Permit Number: M039-50728-02045
Reviewer: Tori Tamburrino

Unpaved Roads at Industrial Site
The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (11/2006).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight of Loaded Vehicle (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)	24.0	1.0	24.0	2.0	48.0	550	0.104	2.5	912.5
Vehicle (leaving plant) (one-way trip)	24.0	1.0	24.0	2.0	48.0	550	0.104	2.5	912.5
Moving Truck (2-axle) (26' Straight Truck) (entering plant) (one-way trip)	1.0	1.0	1.0	6.3	6.3	550	0.104	0.1	38.0
Moving Truck (2-axle) (26' Straight Truck) (leaving plant) (one-way trip)	1.0	1.0	1.0	6.3	6.3	550	0.104	0.1	38.0
Freight Truck (5 axles) (entering plant) (one-way trip)	10.0	1.0	10.0	15.0	150.0	550	0.104	1.0	380.2
Freight Truck (5 axles) (leaving plant) (one-way trip)	10.0	1.0	10.0	15.0	150.0	550	0.104	1.0	380.2
Pickup Truck (entering plant) (one-way)	3.0	1.0	3.0	2.5	7.5	550	0.104	0.3	114.1
Pickup Truck (leaving plant) (one-way)	3.0	1.0	3.0	2.5	7.5	550	0.104	0.3	114.1
SUV (entering plant) (one-way)	5.0	1.0	5.0	3.0	15.0	550	0.104	0.5	190.1
SUV (leaving plant) (one-way)	5.0	1.0	5.0	3.0	15.0	550	0.104	0.5	190.1
Grain Tanker (entering plant) (one-way)	1.0	1.0	1.0	15.0	15.0	550	0.104	0.1	38.0
Grain Tanker (leaving plant) (one-way)	1.0	1.0	1.0	15.0	15.0	550	0.104	0.1	38.0
		Totals	**88.0**		**483.6**			**9.2**	**3345.8**

Average Vehicle Weight Per Trip = 5.5 tons/trip
Average Miles Per Trip = 0.10 miles/trip

Unmitigated Emission Factor, Ef = k*[(s/12)^a]*[(W/3)^b] (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	6.0	6.0	6.0	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Iron and Steel Production)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	5.5	5.5	5.5	tons = average vehicle weight
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = E * [(365 - P)/365] (Equation 2 from AP-42 13.2.2)
Mitigated Emission Factor, Eext = E * [(365 - P)/365]
where P = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	3.96	1.06	0.11	lb/mile
Mitigated Emission Factor, Eext =	2.60	0.69	0.07	lb/mile

Process	Mitigated PTE of PM (Before Control) (tons/yr)	Mitigated PTE of PM10 (Before Control) (tons/yr)	Mitigated PTE of PM2.5 (Before Control) (tons/yr)
Vehicle (entering plant) (one-way trip)	1.19	0.32	0.03
Vehicle (leaving plant) (one-way trip)	1.19	0.32	0.03
Moving Truck (2-axle) (26' Straight Truck) (entering plant) (one-way trip)	0.05	0.01	0.00
Moving Truck (2-axle) (26' Straight Truck) (leaving plant) (one-way trip)	0.05	0.01	0.00
Freight Truck (5 axles) (entering plant) (one-way trip)	0.50	0.13	0.01
Freight Truck (5 axles) (leaving plant) (one-way trip)	0.50	0.13	0.01
Pickup Truck (entering plant) (one-way)	0.15	0.04	0.00
Pickup Truck (leaving plant) (one-way)	0.15	0.04	0.00
SUV (entering plant) (one-way)	0.25	0.07	0.01
SUV (leaving plant) (one-way)	0.25	0.07	0.01
Grain Tanker (entering plant) (one-way)	0.05	0.01	0.00
Grain Tanker (leaving plant) (one-way)	0.05	0.01	0.00
Totals	**4.36**	**1.16**	**0.12**

Methodology

Total Weight driven per day (ton/day)	= [Maximum Weight of Loaded Vehicle (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)]
Mitigated PTE (Before Control) (tons/yr)	= (Maximum one-way miles (miles/yr)) * (Mitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
Mitigated PTE (After Control) (tons/yr)	= (Mitigated PTE (Before Control) (tons/yr)) * (1 - Dust Control Efficiency)

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • Fax (317) 233-6647 • www.idem.IN.gov

Mike Braun
Governor

Clint Woods
Commissioner

November 9, 2026

Jeremy Shue
Re-Gen, Inc.
221 W US 20 Ste C
Middlebury, IN 46540

Re: Public Notice
Re-Gen, Inc.
Permit Level: MSOP New Source Construction
(Minor PSD/EO)
Permit Number: 039-50728-02045

Dear Jeremy Shue:

Enclosed is the Notice of 30-Day Period for Public Comment for your draft air permit.

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. The Notice of 30-Day Period for Public Comment has also been sent to the OAQ Permits Branch Interested Parties List and, if applicable, your Consultant/Agent and/or Responsible Official/Authorized Individual.

The preliminary findings, including the draft permit, technical support document, emission calculations, and other supporting documents, **are available electronically at**:

IDEM's online searchable database: https://www.in.gov/apps/idem/caats/ . Choose Search Option **by Permit Number**, then enter permit 50728.

A copy of the application and preliminary findings is also available via IDEM's Virtual File Cabinet (VFC) located at https://www.in.gov/idem/legal/public-records/virtual-file-cabinet/. Once you have accessed VFC, you will then have the option to search for source related documents using a variety of criteria. To find documents related to this air permit, click on "Advanced Search," specify "OAQ" in the Program search field, specify the five-digit permit number 50728 in the Permit # search field, then click the Search button at the top or bottom of the webpage.

If you have requested to receive a hard copy of these documents, the preliminary findings are enclosed.

The Public Notice period will begin the date the Notice is published on the IDEM Official Public Notice website. Publication has been requested and is expected within 2-3 business days. You may check the exact Public Notice begins and ends date here: https://www.in.gov/idem/public-notices/

Please note that as of April 17, 2019, IDEM is no longer required to publish the notice in a newspaper.

OAQ has submitted the draft permit package to the Middlebury Public Library, 101 East Winslow Street in Middlebury, Indiana 46540. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Please review the draft permit documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Tori Tamburrino, Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 N. Senate Avenue, Room 13W, Indianapolis, Indiana, 46204-2251 or call (800) 451-6027, and ask for extension 0043 or dial (317) 233-0043.

Sincerely,

Alyson Sanders

Alyson Sanders
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover Letter

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • Fax (317) 233-6647 • www.idem.IN.gov

Mike Braun
Governor

Clint Woods
Commissioner

November 9, 2026

To: Middlebury Public Library

From: Jenny Acker, Branch Chief
Permits Branch
Office of Air Quality

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

Applicant Name: Re-Gen, Inc.
Permit Number: 039-50728-02045

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

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

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

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

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

Enclosures
PN Library updated 1/13/2025

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Notice of Public Comment

November 9, 2026
Re-Gen, Inc.
039-50728-02045

To: Interested Parties:

You are receiving this notice because you asked to be on IDEM's notification list for this company and/or county; or because your property is nearby the company being permitted; or because you represent a local/regional government entity. The Indiana Department of Environmental Management, Office of Air Quality, invites your comments on the draft air permit.

Enclosed is a Notice of Public Comment, which has posted on IDEM's Public Notice website at https://www.in.gov/idem/public-notices/.

The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

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

Please Note: *If you would like to be removed from the Air Permits mailing list, please contact Joanne Smiddie-Brush with the Air Permits Administration Section at 1-800-451-6027, ext. 3-0185 or via e-mail at JBRUSH@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN Interested Parties Cover Letter 1/13/2025

Mail Code 61-53

IDEM Staff	ASANDERS 11/09/2026 Re-Gen Incorporated 039-50728-02045 (draft)			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	Type of Mail: **CERTIFICATE OF MAILING ONLY**	

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		Jeremy Shue Re-Gen Incorporated 221 W US Hwy 20 Ste C Middlebury IN 46540 (Source CAATS)									
2		Elkhart County Health Department 608 Oakland Ave Elkhart IN 46516 *(Health Department)*									
3		Middlebury Town Council and Town Manager PO Box 812 Middlebury IN 46540 *(Local Official)*									
4		Middlebury Public Library 101 E Winslow St Middlebury IN 46540 *(Library)*									
5		Elkhart County Board of Commissioners 117 N 2nd St Goshen IN 46526 *(Local Official)*									
6		IP Moulding Inc 219 W US Hwy 20 Middlebury IN 46540 *(Affected Party)*									
7		Jeremy Wengerd MDK Enterprises 221 W US Hwy 20 Middlebury IN 46540 *(Affected Party)*									
8		The Mail-Journal PO Box 188 Milford IN 46542 *(Affected Party)*									
9		Nibco Inc 701 Eisenhower Dr N Goshen IN 46526 *(Affected Party)*									
10		Current Resident 11438 Stons Cr Unit 101 Fishers IN 46037-7645 *(Affected Party)*									
11		Greg Yoder Or Current Resident 68274 CR 21 New Paris IN 46553 *(Affected Party)*									
12											
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