



# Indiana Department of Environmental Management

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

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

Michael R. Pence  
Governor

Carol S. Comer  
Commissioner

## NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding the Renewal of a  
Federally Enforceable State Operating Permit (FESOP)  
for Electronic Recyclers International, Inc. in Hendricks County

FESOP Renewal No.: F063-36879-00064

The Indiana Department of Environmental Management (IDEM) has received an application from Electronic Recyclers International, Inc. located at 2540 Airwest Blvd., Plainfield, IN 46168 for a renewal of its FESOP issued on December 21, 2011. If approved by IDEM's Office of Air Quality (OAQ), this proposed renewal would allow Electronic Recyclers International, Inc. to continue to operate its existing source.

This draft FESOP Renewal does not contain any new equipment that would emit air pollutants; however, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes (e.g., changes that add or modify synthetic minor emission limits). This notice fulfills the public notice procedures to which those conditions are subject. IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow for these changes.

A copy of the permit application and IDEM's preliminary findings are available at:

Plainfield-Guilford Twp. Public Library  
1120 Stafford Rd.  
Plainfield, IN 46168

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

### How can you participate in this process?

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30<sup>th</sup> day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. 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 a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. 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 F063-36879-00064 in all correspondence.

**Comments should be sent to:**

Katrina Gilbank  
IDEM, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
(800) 451-6027, ask for extension 4-9526  
Or dial directly: (317) 234-9526  
Fax: (317) 232-6749 attn: Katrina Gilbank  
E-mail: KGilbank@idem.IN.gov

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 Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**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 address indicated above, at the local library indicated above, and the IDEM public file room on the 12<sup>th</sup> floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

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



Jason R. Krawczyk, Section Chief  
Permits Branch  
Office of Air Quality



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Michael R. Pence  
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Carol S. Comer  
Commissioner

## Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**Electronic Recyclers International, Inc.  
2540 Airwest Blvd.  
Plainfield, Indiana 46168**

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

**The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.**

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

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 FESOP under 326 IAC 2-8.

Operation Permit No.: F063-36879-00064	
Issued by:	Issuance Date:
Jason R. Krawczyk, Section Chief Permits Branch Office of Air Quality	Expiration Date:

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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 through A.3 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 2-8-3(b)]

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The Permittee owns and operates a stationary e-waste recycling and CRT glass cutting and cleaning facility.

Source Address:	2540 Airwest Blvd., Plainfield, Indiana 46168
General Source Phone Number:	(317) 522-0333
SIC Code:	5093 (Scrap and Waste Materials)
County Location:	Hendricks
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State 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 [326 IAC 2-8-3(c)(3)]

---

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

- (a) One (1) CRT tube line, constructed in 2011, with a maximum capacity of 5,000 lbs/hr, consisting of:
  - (1) Three (3) CRT glass cutting saws, identified as CRT Saws 1 through 3, with maximum capacities of 130 units per hour, combined, utilizing a Donaldson baghouse, identified as DFO 4-32, as particulate control, and exhausting within the building;
  - (2) Seven (7) material transfer conveyors associated with the CRT saws, with maximum capacities of 5,000 lbs/hr, each;
  - (3) One (1) CRT glass tumbler, identified as CRT Tumbler, utilizing a Donaldson baghouse, with a maximum capacity of 130 units per hour, identified as DFO 3-12, as particulate control, and exhausting within the building; and
  - (4) Two (2) material transfer conveyors associated with the CRT Tumbler, with maximum capacities of 5,000 lbs/hr, each.
- (b) One (1) electronic shredding and separating process, approved for construction in 2011, and consisting of:
  - (1) One (1) electronic shredder, identified as Shredder, with a maximum capacity of 17,500 lbs/hr, utilizing a Donaldson baghouse, identified as DFO 4-48, for particulate control, and exhausting within the building;
  - (2) One (1) magnetic belt separator, with a maximum capacity of 17,500 lbs/hr, utilizing the Donaldson baghouse identified as DFO 4-48 for particulate control, and exhausting within the building;

- (3) One (1) steel storage pit, with a maximum input capacity of 7,000 lbs/hr;
- (4) One (1) sizer, with a maximum capacity of 10,500 lbs/hr, utilizing the Donaldson baghouse, identified as DFO 4-48 as particulate control, and exhausting within the building;
- (5) Two (2) Eddy Current sorters, separating plastics from copper and aluminum, with a combined maximum capacity of 10,500 lbs/hr, utilizing one (1) Donaldson baghouse, identified as DFO 4-48, for particulate control, and exhausting within the building;
- (6) Two (2) finders, separating plastics from fines, with a combined maximum capacity of 8,225 lbs/hr, utilizing one (1) Donaldson baghouse, identified as DFO 3-60, and exhausting within the building;
- (7) One (1) V-CAD sorter, separating plastics by weight, with a maximum capacity of 4,750 lbs/hr, utilizing no control devices, and exhausting within the building; and
- (8) Sixteen (16) material transfer conveyors, with maximum capacities of 17,500 lbs/hr, each.

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

This stationary source also includes the following insignificant activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, consisting of:
  - (1) Six (6) air make-up units, with a combined heat input of 15.60 MMBtu/hr
- (b) One (1) Tumbler, identified as Tumbler 2, with a maximum capacity of 5,000 pounds per hour, using baghouse DC5 as control, and exhausting indoors.
- (c) Three (3) material transfer conveyors associated with Tumbler 2, with a maximum capacity of 5,000 pounds per hour, each.
- (d) Paved roads and parking lots with public access.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

## SECTION B GENERAL CONDITIONS

### B.1 Definitions [326 IAC 2-8-1]

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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 2-7) shall prevail.

### B.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

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- (a) This permit, F063-36879-00064, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

### B.4 Enforceability [326 IAC 2-8-6][IC 13-17-12]

---

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

### B.5 Severability [326 IAC 2-8-4(4)]

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

### B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

### B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

---

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

### B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

---

- (a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:

- (1) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and
  - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
  - (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

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

- (b) The annual compliance certification report 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 annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)]

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

The Permittee shall implement the PMPs.

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

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

**B.12 Emergency Provisions [326 IAC 2-8-12]**

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- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.

- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or  
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)  
Facsimile Number: 317-233-6865

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

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

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to F063-36879-00064 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.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

**B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination  
[326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]**

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(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

**B.16 Permit Renewal [326 IAC 2-8-3(h)]**

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(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(42). The renewal application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months 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 2-8 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 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

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

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

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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 2-8-10(b)(3)]

B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) and (c) without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b)(1) and (c). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(1) and (c).

- (b) **Emission Trades [326 IAC 2-8-15(b)]**  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(b).
- (c) **Alternative Operating Scenarios [326 IAC 2-8-15(c)]**  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

**B.19 Source Modification Requirement [326 IAC 2-8-11.1]**

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

**B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]**

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

- (a) Enter upon the Permittee's premises where a FESOP 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.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-8-4(6)][326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314][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 2-8-4(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 Overall Source Limit [326 IAC 2-8]**

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

**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]

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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]

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

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

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

C.7 Stack Height [326 IAC 1-7]

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The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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.

### **Testing Requirements [326 IAC 2-8-4(3)]**

#### **C.9 Performance Testing [326 IAC 3-6]**

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- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

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

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

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

### **Compliance Monitoring Requirements [326 IAC 2-8-4(1)][326 IAC 2-8-5(a)(1)]**

#### **C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]**

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- (a) For new units:  
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.
- (b) For existing units:  
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If, due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

#### **C.12 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. 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 [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]**

#### **C.13 Emergency Reduction Plans [326 IAC 1-5-2][326 IAC 1-5-3]**

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Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-8-4][40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.15 Response to Excursions or Exceedances [326 IAC 2-8-4][326 IAC 2-8-5]

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.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (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.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

### **Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

#### **C.17 Emission Statement [326 IAC 2-6]**

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In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(2), starting in 2017 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a).

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-50 IGCN 1003  
Indianapolis, Indiana 46204-2251

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

#### **C.18 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]**

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- (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. Support information includes the following, where applicable:

- (AA) All calibration and maintenance records.
- (BB) All original strip chart recordings for continuous monitoring instrumentation.
- (CC) Copies of all reports required by the FESOP.

Records of required monitoring information include the following, where applicable:

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
- (BB) The dates analyses were performed.
- (CC) The company or entity that performed the analyses.
- (DD) The analytical techniques or methods used.
- (EE) The results of such analyses.
- (FF) The operating conditions as existing at the time of sampling or measurement.

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.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)][326 IAC 2-1.1-11]**

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- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B -Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) 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.
- (d) 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.

**Stratospheric Ozone Protection**

**C.20 Compliance with 40 CFR 82 and 326 IAC 22-1**

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Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) CRT tube line, constructed in 2011, with a maximum capacity of 5,000 lbs/hr, consisting of:
  - (1) Three (3) CRT glass cutting saws, identified as CRT Saws 1 through 3, with maximum capacities of 130 units per hour, combined, utilizing a Donaldson baghouse, identified as DFO 4-32, as particulate control, and exhausting within the building;
  - (2) Seven (7) material transfer conveyors associated with the CRT saws, with maximum capacities of 5,000 lbs/hr, each;
  - (3) One (1) CRT glass tumbler, identified as CRT Tumbler, with a maximum capacity of 130 units per hour, utilizing a Donaldson baghouse, identified as DFO 3-12, as particulate control, and exhausting within the building; and
  - (4) Two (2) material transfer conveyors associated with the CRT Tumbler, with maximum capacities of 5,000 lbs/hr, each.

(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 2-8-4(1)]

#### D.1.1 PSD Minor Limits [326 IAC 2-2]

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

- (a) PM emissions from the baghouse (DFO 4-32) controlling emissions from the three (3) CRT glass cutting saws shall not exceed 15.95 lb/hr.
- (b) PM emissions from the baghouse (DFO 3-12) controlling emissions from the CRT tumbler shall not exceed 5.32 lb/hr.

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

#### D.1.2 FESOP Limitations [326 IAC 2-8-4]

In order to render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

- (a) PM10 emissions from the baghouse (DFO 4-32) controlling emissions from the three (3) CRT glass cutting saws shall not exceed 7.98 lb/hr.
- (b) PM2.5 emissions from the baghouse (DFO 4-32) controlling emissions from the three (3) CRT glass cutting saws shall not exceed 7.98 lb/hr.
- (c) PM10 emissions from the baghouse (DFO 3-12) controlling emissions from the CRT tumbler shall not exceed 2.66 lb/hr.

- (d) PM2.5 emissions from the baghouse (DFO 3-12) controlling emissions from the CRT tumbler shall not exceed 2.66 lb/hr.

Compliance with these limits, combined with the potential to emit PM10 and PM2.5 from all other emission units at this source, shall limit the source-wide total potential to emit of PM10 and PM2.5 to less than 100 tons per twelve (12) consecutive month period, each, and shall render 326 IAC 2-7 (Part 70 Permits) not applicable.

**D.1.3 Particulate Emission Limitations [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from each of the following operations shall not exceed the pound per hour limits listed in the table below:

Unit ID	Unit Description	Maximum Throughput Rate (tons/hr)	Control Device ID	326 IAC 6-3-2 Total Allowable Particulate Emission Rate (lbs/hr)
CRT Saws 1-3	CRT Glass Cutting Saws	2.50 (combined)	DFO 4-32	7.57 (combined)
CRT Tumbler	CRT Glass Tumbler	2.50	DFO 3-12	7.57

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

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

**D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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

**Compliance Determination Requirements [326 IAC 2-8-4(1)]**

**D.1.5 Particulate Matter (PM)**

In order to assure compliance with Conditions D.1.1 and D.1.2, the baghouses (DFO 4-32 and DFO 3-12) for PM, PM<sub>10</sub>, and PM<sub>2.5</sub> control shall be in operation at all times when the CRT glass cutting saws and/or the CRT glass tumbler are in operation.

**D.1.6 Testing Requirements [326 IAC 2-1.1-11]**

- (a) In order to demonstrate compliance with Conditions D.1.1(a), D.1.2(a) and D.1.2(b), the Permittee shall perform PM, PM10, and PM2.5 testing of the baghouse (DFO 4-32) controlling emissions from the three (3) CRT glass cutting saws, utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. PM10 and PM2.5 include filterable and condensable particulate matter.
- (b) In order to demonstrate compliance with Conditions D.1.1(b), D.1.2(c) and D.1.2(d), the Permittee shall perform PM, PM10, and PM2.5 testing of the baghouse (DFO 3-12) controlling emissions from the CRT tumbler, utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. PM10 and PM2.5 include filterable and condensable particulate matter.

Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to

the performance testing required by this condition.

### **Compliance Monitoring Requirements [326 IAC 2-8-4(1)][326 IAC 2-8-5(a)(1)]**

#### **D.1.7 Baghouse Parametric Monitoring**

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The Permittee shall record the pressure drops across DFO 4-32 and DFO 3-12 used in conjunction with the CRT glass cutting saws and the CRT glass tumbler, at least once per day when the CRT glass cutting saws and/or the CRT glass tumbler are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 0.20 and 8.0 inches of water, unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

#### **D.1.8 Broken or Failed Bag Detection**

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- (a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

### **Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

#### **D.1.9 Record Keeping Requirement**

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- (a) To document the compliance status with Condition D.1.7, the Permittee shall maintain daily records of the pressure drops across the baghouses (DFO 4-32 and DFO 3-12) controlling the electronic shredding and separating process. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (i.e. the process did not operate that day).
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (b) One (1) electronic shredding and separating process, approved for construction in 2011, and consisting of:
- (1) One (1) electronic shredder, identified as Shredder, with a maximum capacity of 17,500 lbs/hr, utilizing a Donaldson baghouse, identified as DFO 4-48, for particulate control, and exhausting within the building;
  - (2) One (1) magnetic belt separator, with a maximum capacity of 17,500 lbs/hr, utilizing the Donaldson baghouse identified as DFO 4-48 for particulate control, and exhausting within the building;
  - (3) One (1) steel storage pit, with a maximum input capacity of 7,000 lbs/hr;
  - (4) One (1) sizer, with a maximum capacity of 10,500 lbs/hr, utilizing the Donaldson baghouse, identified as DFO 4-48 as particulate control, and exhausting within the building;
  - (5) Two (2) Eddy Current sorters, separating plastics from copper and aluminum, with a combined maximum capacity of 10,500 lbs/hr, utilizing one (1) Donaldson baghouse, identified as DFO 4-48, for particulate control, and exhausting within the building;
  - (6) Two (2) finders, separating plastics from fines, with a combined maximum capacity of 8,225 lbs/hr, utilizing one (1) Donaldson baghouse, identified as DFO 3-60, and exhausting within the building;
  - (7) One (1) V-CAD sorter, separating plastics by weight, with a maximum capacity of 4,750 lbs/hr, utilizing no control devices, and exhausting within the building; and
  - (8) Sixteen (16) material transfer conveyors, with maximum capacities of 17,500 lbs/hr, each.

(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 2-8-4(1)]

#### D.2.1 PSD Minor Limits [326 IAC 2-2]

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

- (a) PM emissions from the baghouse (DFO 4-48) controlling emissions from the electronic shredder, magnetic belt separator, sizer, and two (2) eddy current sorters, shall not exceed 8.45 lb/hr.
- (b) PM emissions from the baghouse (DFO 3-60) controlling emissions from the two (2) finder emission units, shall not exceed 1.69 lb/hr.

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

**D.2.2 FESOP Limitations [326 IAC 2-8-4]**

In order to render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable, the Permittee shall comply with the following:

- (a) PM10 emissions from the baghouse (DFO 4-48) controlling emissions from the electronic shredder, magnetic belt separator, sizer, and two (2) eddy current sorters, shall not exceed 4.23 lb/hr.
- (b) PM2.5 emissions from the baghouse (DFO 4-48) controlling emissions from the electronic shredder, magnetic belt separator, sizer, and two (2) eddy current sorters, shall not exceed 4.23 lb/hr.
- (c) PM10 emissions from the baghouse (DFO 3-60) controlling emissions from the two (2) finder emission units, shall not exceed 0.85 lb/hr.
- (d) PM2.5 emissions from the baghouse (DFO 3-60) controlling emissions from the two (2) finder emission units, shall not exceed 0.85 lb/hr.

Compliance with these limits, combined with the potential to emit PM10 and PM2.5 from all other emission units at this source, shall limit the source-wide total potential to emit of PM10 and PM2.5 to less than 100 tons per twelve (12) consecutive month period, each, and shall render 326 IAC 2-7 (Part 70 Permits) not applicable.

**D.2.3 Particulate Emission Limitations [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from each of the following operations shall not exceed the pound per hour limits listed in the table below:

Unit ID	Unit Description	Maximum Throughput Rate (tons/hr)	Control Device	326 IAC 6-3-2 Total Allowable Particulate Emission Rate (lbs/hr)
Shredder	E-Waste Shredder	8.75	DFO 4-48	17.54
N/A	Magnetic Belt Separator	8.75	DFO 4-48	17.54
N/A	Sizer	5.25	DFO 4-48	12.45
N/A	Two (2) Eddy Current Sorters	5.25	DFO 4-48	12.45
N/A	Two (2) Finders	4.11	DFO 3-60	10.57

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

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

**D.2.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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

**Compliance Determination Requirements [326 IAC 2-8-4(1)]**

**D.2.5 Particulate Matter (PM)**

In order to assure compliance with Conditions D.2.1 and D.2.2, the baghouses (DFO 4-48 and DFO 3-60) for PM, PM<sub>10</sub>, and PM<sub>2.5</sub> control shall be in operation at all times when the electronic shredding and separating process is in operation.

#### D.2.6 Testing Requirements [326 IAC 2-1.1-11]

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- (a) The Permittee shall perform PM, PM10, and PM2.5 testing of the baghouse (DFO 4-48) controlling emissions from the electronic shredder, magnetic belt separator, sizer, and two (2) eddy current sorters, utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. PM10 and PM2.5 include filterable and condensable particulate matter.
- (b) The Permittee shall perform PM, PM10, and PM2.5 testing of the baghouse (DFO 3-60) controlling emissions from the two (2) finder emission units, utilizing methods approved by the commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. PM10 and PM2.5 include filterable and condensable particulate matter.

Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

#### Compliance Monitoring Requirements [326 IAC 2-8-4(1)][326 IAC 2-8-5(a)(1)]

##### D.2.7 Baghouse Parametric Monitoring

---

The Permittee shall record the pressure drops across DFO 4-48 and DFO 3-60 used in conjunction with the electronic shredding and separating process, at least once per day when the electronic shredding and separating process is in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 0.20 and 8.0 inches of water, unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

##### D.2.8 Broken or Failed Bag Detection

---

- (a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

## **Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

### **D.2.9 Record Keeping Requirement**

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- (a) To document the compliance status with Condition D.2.7, the Permittee shall maintain daily records of the pressure drops across the baghouses (DFO 4-48 and DFO 3-60) controlling the electronic shredding and separating process. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (i.e. the process did not operate that day).
  
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
CERTIFICATION**

Source Name: Electronic Recyclers International, Inc.  
Source Address: 2540 Airwest Blvd., Plainfield, Indiana 46168  
FESOP Permit No.: F063-36879-00064

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) \_\_\_\_\_
- Report (specify) \_\_\_\_\_
- Notification (specify) \_\_\_\_\_
- Affidavit (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: (317) 233-0178  
Fax: (317) 233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
EMERGENCY OCCURRENCE REPORT**

Source Name: Electronic Recyclers International, Inc.  
Source Address: 2540 Airwest Blvd., Plainfield, Indiana 46168  
FESOP Permit No.: F063-36879-00064

**This form consists of 2 pages**

**Page 1 of 2**

- |  |
|--|
| <p><input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none"><li>• The Permittee must notify the Office of Air Quality (OAQ), within four (4) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and</li><li>• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-8-12</li></ul> |
|--|

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Electronic Recyclers International, Inc.  
Source Address: 2540 Airwest Blvd., Plainfield, Indiana 46168  
FESOP Permit No.: F063-36879-00064

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

<p>This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B -Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

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

Technical Support Document (TSD) for a  
Federally Enforceable State Operating Permit Renewal

**Source Background and Description**

<b>Source Name:</b>	Electronic Recyclers International, Inc.
<b>Source Location:</b>	2540 Airwest Blvd., Plainfield, IN 46168
<b>County:</b>	Hendricks
<b>SIC Code:</b>	5093 (Scrap and Waste Materials)
<b>Permit Renewal No.:</b>	F063-36879-00064
<b>Permit Reviewer:</b>	Katrina Gilbank

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Electronic Recyclers International, Inc. relating to the operation of a stationary e-waste recycling and CRT glass cutting and cleaning facility. On February 26, 2016, Electronic Recyclers International, Inc. submitted an application to the OAQ requesting to renew its operating permit. Electronic Recyclers International, Inc. was issued a FESOP (F063-30951-00064) on December 21, 2011.

**Permitted Emission Units and Pollution Control Equipment**

The source consists of the following permitted emission units:

- (a) One (1) CRT tube line, constructed in 2011, with a maximum capacity of 5,000 lbs/hr, consisting of:
  - (1) Three (3) CRT glass cutting saws, identified as CRT Saws 1 through 3, with maximum capacities of 130 units per hour, combined, utilizing a Donaldson baghouse, identified as DFO 4-32, as particulate control, and exhausting within the building;
  - (2) Seven (7) material transfer conveyors associated with the CRT saws, with maximum capacities of 5,000 lbs/hr, each;
  - (3) One (1) CRT glass tumbler, identified as CRT Tumbler, utilizing a Donaldson baghouse, with a maximum capacity of 130 units per hour, identified as DFO 3-12, as particulate control, and exhausting within the building; and
  - (4) Two (2) material transfer conveyors associated with the CRT Tumbler, with maximum capacities of 5,000 lbs/hr, each.
- (b) One (1) electronic shredding and separating process, approved for construction in 2011, and consisting of:
  - (1) One (1) electronic shredder, identified as Shredder, with a maximum capacity of 17,500 lbs/hr, utilizing a Donaldson baghouse, identified as DFO 4-48, for particulate control, and exhausting within the building;
  - (2) One (1) magnetic belt separator, with a maximum capacity of 17,500 lbs/hr, utilizing the Donaldson baghouse identified as DFO 4-48 for particulate control, and exhausting within the building;

- (3) One (1) steel storage pit, with a maximum input capacity of 7,000 lbs/hr;
- (4) One (1) sizer, with a maximum capacity of 10,500 lbs/hr, utilizing the Donaldson baghouse, identified as DFO 4-48 as particulate control, and exhausting within the building;
- (5) Two (2) Eddy Current sorters, separating plastics from copper and aluminum, with a combined maximum capacity of 10,500 lbs/hr, utilizing one (1) Donaldson baghouse, identified as DFO 4-48, for particulate control, and exhausting within the building;
- (6) Two (2) finders, separating plastics from fines, with a combined maximum capacity of 8,225 lbs/hr, utilizing one (1) Donaldson baghouse, identified as DFO 3-60, and exhausting within the building;
- (7) One (1) V-CAD sorter, separating plastics by weight, with a maximum capacity of 4,750 lbs/hr, utilizing no control devices, and exhausting within the building; and
- (8) Sixteen (16) material transfer conveyors, with maximum capacities of 17,500 lbs/hr, each.

#### **Insignificant Activities**

The source also consists of the following insignificant activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, consisting of:
  - (1) Six (6) air make-up units, with a combined heat input of 15.60 MMBtu/hr
- (b) One (1) Tumbler, identified as Tumbler 2, constructed in 2015, with a maximum capacity of 5,000 pounds per hour, using baghouse DC5 as control, and exhausting indoors.
- (c) Three (3) material transfer conveyors associated with Tumbler 2, constructed in 2015, with a maximum capacity of 5,000 pounds per hour, each.
- (d) Paved roads and parking lots with public access.

#### **Existing Approvals**

Since the issuance of the FESOP No. F063-30951-00064 on December 21, 2016, the source has constructed or has been operating under the following additional approvals:

- (a) Significant Permit Revision No. 063-35580-00064, issued on June 26, 2015.
- (b) Administrative Amendment No. 063-34162-00064, issued on March 25, 2014.

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

#### **Enforcement Issue**

There are no enforcement actions pending.

### Emission Calculations

See Appendix A of this document for detailed emission calculations.

### County Attainment Status

The source is located in Hendricks County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard. <sup>1</sup>
PM <sub>2.5</sub>	Attainment effective July 11, 2013, for the annual PM <sub>2.5</sub> standard.
PM <sub>2.5</sub>	Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM <sub>2.5</sub> standard.
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.

<sup>1</sup>Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

- (a) **Ozone Standards**  
Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Hendricks County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM<sub>2.5</sub>**  
Hendricks County has been classified as attainment for PM<sub>2.5</sub>. Therefore, direct PM<sub>2.5</sub>, SO<sub>2</sub>, and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) **Other Criteria Pollutants**  
Hendricks County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

### Fugitive Emissions

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

### Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM	>250
PM <sub>10</sub>	>100, <250
PM <sub>2.5</sub>	>100, <250
SO <sub>2</sub>	<100
NO <sub>x</sub>	<100
VOC	<100
CO	<100
Single HAP (lead)	<10
Combined HAPs	<25

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

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at [http://www.supremecourt.gov/opinions/13pdf/12-1146\\_4g18.pdf](http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf)) 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.

- (a) The potential to emit (as defined in 326 IAC 2-7-1(30)) of PM<sub>10</sub> and PM<sub>2.5</sub> are equal to or greater than 100 tons per year. However, the Permittee has agreed to limit the source's PM<sub>10</sub> and PM<sub>2.5</sub> emissions to less than Title V levels, therefore the Permittee will be issued a FESOP Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(30)) of all other criteria pollutants are less than 100 tons per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(30)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(30)) of a combination of HAPs is less than twenty-five (25) tons per year.

### Potential to Emit After Issuance

The source has opted to remain a FESOP source. The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this FESOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)								
	PM	PM <sub>10</sub> *	PM <sub>2.5</sub> **	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs	Worst Single HAP
CRT Saws (Baghouse DFO 4-32)	69.86	34.95	34.95	-	-	-	-	6.22	5.92 (lead)
CRT Conveyors	0.30	0.11	0.11	-	-	-	-	8.70E-03	8.28E-03 (lead)
CRT Tumbler (Baghouse DFO 3-12)	23.30	11.65	11.65	-	-	-	-	1.37	1.30 (lead)
Shredder Process (Baghouse DFO 4-48)	37.01	18.53	18.53	-	-	-	-	8.03E-01	6.54E-01 (lead)
Shredder Conveyors	1.84	0.67	0.67	-	-	-	-	0.02	0.02 (lead)
Finders Process (Baghouse DFO 3-60)	7.40	3.72	3.72	-	-	-	-	1.61E-01	1.31E-01 (lead)
Natural Gas Combustion	0.13	0.52	0.52	0.04	6.83	0.38	5.74	1.29E-01	3.42E-05 (lead)
Tumbler 2 Process (Baghouse DC5)	1.70	1.63	1.63	-	-	-	-	-	-
Roadway (Fugitive)	1.68	0.34	0.08	-	-	-	-	-	-
<b>Total PTE of Entire Source</b>	<b>141.54</b>	<b>71.79</b>	<b>71.79</b>	<b>0.04</b>	<b>6.83</b>	<b>0.38</b>	<b>5.74</b>	<b>8.71</b>	<b>8.03 (lead)</b>
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	100	100	100	100	100	100	100	NA	NA
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), PM <sub>10</sub> and PM <sub>2.5</sub> , not particulate matter (PM), are each considered as a "regulated air pollutant". **PM <sub>2.5</sub> listed is direct PM <sub>2.5</sub> .									

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at [http://www.supremecourt.gov/opinions/13pdf/12-1146\\_4g18.pdf](http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf)) 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 GHGs emissions to determine operating permit applicability or PSD applicability to a source or modification.

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no PSD regulated pollutant is emitted at a rate of two hundred fifty (250) tons per year or more and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).
- (b) This existing source is not a major source of HAPs, as defined in 40 CFR 63.2, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

### **Federal Rule Applicability**

#### **Compliance Assurance Monitoring (CAM)**

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

#### **New Source Performance Standards (NSPS)**

- (b) The requirements of the New Source Performance Standard for Secondary Lead Smelters, 40 CFR 60, Subpart L (326 IAC 12), are not included in the permit, since this facility does not meet the definition of secondary lead smelter, as defined in 40 CFR 60.121(a). This facility recycles CRT glass by separating the tube steel mask, tube panel glass, and funnel glass and sending reclaimable products to end users.
- (c) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.

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

- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Area Sources: Ferroalloys Production Facilities, Subpart YYYYYY are not included in the permit because this source does not operate a ferroalloys production facility, as described in 40 CFR 63.11524.
- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Secondary Nonferrous Metals Processing Area Sources, Subpart TTTTTT are not included in the permit because the source is not a secondary nonferrous metals processing facility, as defined in 40 CFR 63.11472.
- (f) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Nine Metal Fabrication and Finishing Source Categories, Subpart XXXXXX are not included in the permit because this source is not primarily engaged in the operations in one of the nine source categories listed in 40 CFR 63.11514(a).
- (g) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this permit renewal.

### **State Rule Applicability - Entire Source**

#### **326 IAC 2-2 (Prevention of Significant Deterioration)**

This source is in not one of the 28 listed source categories. The potential to emit (PTE) of PM before controls is over 250 tons per year (tpy). The Permittee uses baghouses on both the CRT

tube line and the electronic shredding and separating process to reduce these emissions to less than 250 tons per year. This draft FESOP Renewal includes limits for PM to keep the source classified as minor for PSD.

In order to render 326 IAC 2-2 not applicable, the following emissions limitations have been included:

- (a) PM emissions from the baghouse (DFO 4-32) controlling emissions from the three (3) CRT glass cutting saws shall not exceed 15.95 lb/hr.
- (b) PM emissions from the baghouse (DFO 3-12) controlling emissions from the CRT tumbler shall not exceed 5.32 lb/hr.
- (c) PM emissions from the baghouse (DFO 4-48) controlling emissions from the electronic shredder, magnetic belt separator, sizer, and two (2) eddy current sorters, shall not exceed 8.45 lb/hr.
- (d) PM emissions from the baghouse (DFO 3-60) controlling emissions from the two (2) finder emission units, shall not exceed 1.69 lb/hr.

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

#### **326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))**

This source is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.

#### **326 IAC 2-6 (Emission Reporting)**

This source is subject to 326 IAC 2-6 (Emission Reporting) because it has the potential to emit lead into the ambient air at levels equal to or greater than five (5) tons per year. Therefore, pursuant to 326 IAC 2-6-3(a)(2), triennial reporting is required. An emission statement shall be submitted in accordance with the compliance schedule in 326 IAC 2-6-3 by July 1, 2005, and every three (3) years thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

#### **326 IAC 2-8 (FESOP Limitations)**

The potential to emit  $PM_{10}$  and  $PM_{2.5}$  exceed the Title V thresholds of 100 tons per year. Electronic Recyclers International, Inc. has agreed to continue limiting the emissions of  $PM_{10}$  and  $PM_{2.5}$  from the CRT tube line and the electronic shredding and separating process, such that the potential to emit  $PM_{10}$  and  $PM_{2.5}$  for the entire source will be below the Title V thresholds. The following conditions have been included in the permit:

- (a)  $PM_{10}$  emissions from the baghouse (DFO 4-48) controlling emissions from the electronic shredder, magnetic belt separator, sizer, and two (2) eddy current sorters, shall not exceed 4.23 lb/hr.
- (b)  $PM_{2.5}$  emissions from the baghouse (DFO 4-48) controlling emissions from the electronic shredder, magnetic belt separator, sizer, and two (2) eddy current sorters, shall not exceed 4.23 lb/hr.

- (c) PM<sub>10</sub> emissions from the baghouse (DFO 3-60) controlling emissions from the two (2) finder emission units, shall not exceed 0.85 lb/hr.
- (d) PM<sub>2.5</sub> emissions from the baghouse (DFO 3-60) controlling emissions from the two (2) finder emission units, shall not exceed 0.85 lb/hr.
- (e) PM<sub>10</sub> emissions from the baghouse (DFO 4-32) controlling emissions from the three (3) CRT glass cutting saws shall not exceed 7.98 lb/hr.
- (f) PM<sub>2.5</sub> emissions from the baghouse (DFO 4-32) controlling emissions from the three (3) CRT glass cutting saws shall not exceed 7.98 lb/hr.
- (g) PM<sub>10</sub> emissions from the baghouse (DFO 3-12) controlling emissions from the CRT tumbler shall not exceed 2.66 lb/hr.
- (h) PM<sub>2.5</sub> emissions from the baghouse (DFO 3-12) controlling emissions from the CRT tumbler shall not exceed 2.66 lb/hr.

Compliance with these limits, combined with the potential to emit PM<sub>10</sub> and PM<sub>2.5</sub> from all other emission units at this source, shall limit the source-wide total potential to emit of PM<sub>10</sub> and PM<sub>2.5</sub> to less than 100 tons per twelve (12) consecutive month period, each, and shall render 326 IAC 2-7 (Part 70 Permits) not applicable.

**326 IAC 5-1 (Opacity Limitations)**

This source is subject to the opacity limitations specified in 326 IAC 5-1-2(1).

**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 Particle Matter Emission Limitations)**

This source is not subject to the particulate matter emission limitations because potential uncontrolled fugitive emissions are less than twenty five (25) tons per year.

**326 IAC 6.5 PM Limitations Except Lake County**

This source is not subject to 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 PM Limitations for Lake County**

This source is not subject to 326 IAC 6.8 because it is not located in Lake County.

**326 IAC 7 (Sulfur Dioxide Rules)**

This source is not subject to 326 IAC 7-1.1 because no emission unit has a potential to emit over twenty five (25) tons of sulfur dioxide per year (326 IAC 7-1.1-1).

**326 IAC 8 (Volatile Organic Compound Rules)**

This source is not subject to the requirements under 326 IAC 8, because no emission unit has a potential to emit over fifteen (15) pounds per day (326 IAC 8-1-1).

**326 IAC 9 (Carbon Monoxide Rules)**

This source is not subject to 326 IAC 9 because no emission units at this source are listed in 326 IAC 9-1-2.

**326 IAC 12 (New Source Performance Standards)**

See Federal Rule Applicability Section of this TSD.

**326 IAC 20 (Harzardous Air Pollutants)**

See Federal Rule Applicability Section of this TSD.

<b>State Rule Applicability – Individual Facilities</b>
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**CRT Tube Line Process**

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

The particulate from the CRT Tube Line process, including three (3) CRT glass cutting saws, and one (1) CRT glass tumbler, shall be limited by the following:

Unit ID	Unit Description	Maximum Throughput Rate (tons/hr)	Control Device	Total Allowable Particulate Emission Rate (lbs/hr)	Control Device Required
CRT saws 1-3	CRT Glass Cutting Saws	2.50 (combined)	DFO 4-32	7.57 (combined)	Yes
CRT tumbler	CRT Glass Tumbler	2.50	DFO 3-12	7.57	Yes

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

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

The baghouses shall be in operation at all times the CRT tube line process is in operation, in order to comply with this limit.

**Electronic Shredding Process**

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

The particulate from the electronic shredding process shall be limited by the following:

Unit ID	Unit Description	Maximum Throughput (tons/hr)	Control Device	Total Allowable Particulate Emission Rate (lbs/hr)	Control Device Required
Shredder	E-waste shredder	8.75	DFO 4-48	17.54	No
N/A	Magnetic belt separator	8.75	DFO 4-48	17.54	No
N/A	Sizer	5.25	DFO 4-48	12.45	No
N/A	Eddy current sorters (2)	5.25	DFO 4-48	12.45	No
N/A	Finders (2)	4.11	DFO 3-60	10.57	No

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

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

The associated baghouses are not required, in order to comply with these limits.

**Air Make Up Units**

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

The air make up units are not subject to the limitations in 326 IAC 6-3-2 because they are not part of a manufacturing process, pursuant to 326 IAC 6-3-1(a).

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

The air make up units are not subject to the limitations in 326 IAC 6-2 because they each are not an indirect heating unit.

**Compliance Determination and Monitoring Requirements**

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

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

- (a) In order to demonstrate compliance with the FESOP and PSD Limitations contained in the draft permit, the source is required to conduct performance testing for PM, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions from each baghouse as included in the table below. The PM, PM<sub>10</sub>, PM<sub>2.5</sub> stack tests shall be performed no later than five years after the last valid compliance demonstration. PM<sub>10</sub> and PM<sub>2.5</sub> emissions include filterable and condensable particulate matter. The Permittee will be required to repeat these tests once every five (5) years.

<b>Emission Unit</b>	<b>Control Device</b>	<b>Timeframe for Testing</b>	<b>Pollutant</b>	<b>Frequency of Testing</b>
CRT Saws 1-3	DFO 4-32	Not later than five (5) years after last valid compliance test	PM, PM <sub>10</sub> , PM <sub>2.5</sub>	Once every five (5) years
CRT Glass Tumbler	DFO 3-12	Not later than five (5) years after last valid compliance test	PM, PM <sub>10</sub> , PM <sub>2.5</sub>	Once every five (5) years
Shredder, Magnetic Belt Separator, Sizer, Eddy Current Separators (2)	DFO 4-48	Not later than five (5) years after last valid compliance test	PM, PM <sub>10</sub> , PM <sub>2.5</sub>	Once every five (5) years
Finders	DFO 3-60	Not later than five (5) years after last compliance test	PM, PM <sub>10</sub> , PM <sub>2.5</sub>	Once every five (5) years

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

Control	Parameter	Frequency	Range	Excursions and Exceedances
DFO 4-32	Pressure Drop	Daily	0.20 to 8.0 inches of H <sub>2</sub> O	Response Steps
DFO 3-12	Pressure Drop	Daily	0.20 to 8.0 inches of H <sub>2</sub> O	Response Steps
DFO 4-48	Pressure Drop	Daily	0.20 to 8.0 inches of H <sub>2</sub> O	Response Steps
DFO 3-60	Pressure Drop	Daily	0.20 to 8.0 inches of H <sub>2</sub> O	Response Steps

These monitoring conditions are necessary because the baghouses for the CRT tube line and the electronic shredding process must operate properly to assure compliance with 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) avoidance limits, and 326 IAC 2-8 (FESOP) limits.

#### Recommendation

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

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on February 26, 2016.

#### Conclusion

The operation of this stationary e-waste recycling and CRT glass cutting and cleaning facility shall be subject to the conditions of the attached FESOP Renewal No. F063-36879-00064.

#### IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Katrina Gilbank at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317)234-9526 or toll free at 1-800-451-6027 extension 4-9526.
- (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 Permit Guide on the Internet at: <http://www.in.gov/idem/5881.htm>; and the Citizens' Guide to IDEM on the Internet at: <http://www.in.gov/idem/6900.htm>.

**Appendix A: Emissions Calculations  
SUMMARY OF EMISSIONS**

**Company Name: Electronic Recyclers Int'l Inc.  
Address City IN Zip: 2540 Airwest Boulevard, Plainfield, IN 46168  
Permit Number: F063-36879-00064  
Reviewer: Katrina Gilbank**

Process/ Emission Unit	Uncontrolled Potential To Emit									
	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs	Worst Single HAP	
CRT Saws	211.39	105.69	105.69	-	-	-	-	6.22	5.92	Lead
CRT Conveyors	0.30	0.11	0.11	-	-	-	-	8.70E-03	8.28E-03	Lead
CRT Tumbler	46.57	23.28	23.28	-	-	-	-	1.37	1.30	Lead
Shredder Process	73.99	36.99	36.99	-	-	-	-	8.03E-01	6.54E-01	Lead
Shredder Conveyers	1.84	0.67	0.67	-	-	-	-	2.00E-02	1.63E-02	Lead
Finders Process	14.80	7.40	7.40	-	-	-	-	1.61E-01	1.31E-01	Lead
Natural Gas Combustion	0.13	0.52	0.52	0.04	6.83	0.38	5.74	1.29E-01	3.42E-05	Lead
Tumbler 2 Process	1.70	1.63	1.63	-	-	-	-	-	-	-
Roadway (Fugitive)*	1.68	0.34	0.08	-	-	-	-	-	-	-
<b>Total PTE of Entire Source</b>	<b>350.70</b>	<b>176.31</b>	<b>176.31</b>	<b>0.04</b>	<b>6.83</b>	<b>0.38</b>	<b>5.74</b>	<b>8.71</b>	<b>8.03</b>	<b>Lead</b>

Process/ Emission Unit	Controlled Potential To Emit									
	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs	Worst Single HAP	
CRT Saws	0.21	0.11	0.11	-	-	-	-	6.22E-03	5.92E-03	Lead
CRT Conveyors	0.30	0.11	0.11	-	-	-	-	8.70E-03	8.28E-03	Lead
CRT Tumbler	0.05	0.02	0.02	-	-	-	-	1.37E-03	1.30E-03	Lead
Shredder Process	0.07	0.04	0.04	-	-	-	-	8.03E-04	6.54E-04	Lead
Shredder Conveyers	1.84	0.67	0.67	-	-	-	-	0.02	0.02	Lead
Finders Process	0.01	0.01	0.01	-	-	-	-	1.61E-04	1.31E-04	Lead
Natural Gas Combustion	0.13	0.52	0.52	0.04	6.83	0.38	5.74	1.29E-01	3.42E-05	Lead
Tumbler 2 Process	0.02	0.02	0.02	-	-	-	-	-	-	-
Roadway (Fugitive)*	1.68	0.34	0.08	-	-	-	-	-	-	-
<b>Total PTE of Entire Source</b>	<b>2.63</b>	<b>1.49</b>	<b>1.49</b>	<b>0.04</b>	<b>6.83</b>	<b>0.38</b>	<b>5.74</b>	<b>0.17</b>	<b>0.03</b>	<b>Lead</b>

Process/ Emission Unit	Limited Potential To Emit									
	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs	Worst Single HAP	
CRT Saws	69.86	34.95	34.95	-	-	-	-	6.22	5.92	Lead
CRT Conveyors	0.30	0.11	0.11	-	-	-	-	8.70E-03	8.28E-03	Lead
CRT Tumbler	23.30	11.65	11.65	-	-	-	-	1.37	1.30	Lead
Shredder Process	37.01	18.53	18.53	-	-	-	-	8.03E-01	6.54E-01	Lead
Shredder Conveyers	1.84	0.67	0.67	-	-	-	-	0.02	0.02	Lead
Finders Process	7.40	3.72	3.72	-	-	-	-	1.61E-01	1.31E-01	Lead
Natural Gas Combustion	0.13	0.52	0.52	0.04	6.83	0.38	5.74	1.29E-01	3.42E-05	Lead
Tumbler 2 Process	1.70	1.63	1.63	-	-	-	-	-	-	-
Roadway (Fugitive)*	1.68	0.34	0.08	-	-	-	-	-	-	-
<b>Total PTE of Entire Source</b>	<b>141.54</b>	<b>71.79</b>	<b>71.79</b>	<b>0.04</b>	<b>6.83</b>	<b>0.38</b>	<b>5.74</b>	<b>8.71</b>	<b>8.03</b>	<b>Lead</b>

\*Fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

**Appendix A: Emissions Calculations**

**CRT Saw Emissions**

**Company Name:** Electronic Recyclers Int'l Inc.  
**Address City IN Zip:** 2540 Airwest Boulevard, Plainfield, IN 46168  
**Permit Number:** F063-36879-00064  
**Reviewer:** Katrina Gilbank

**Particulate Emissions**

Emission Unit(s)	Maximum Capacity (tubes/hr)	Emission Factor (lbs/tube)	PM PTE Before Control		PM10/PM2.5 PTE Before Control	
			(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
CRT Saws	130	0.37	48.26	211.39	24.13	105.69

Emission Unit(s)	Control Efficiency (%)	PTE After Control			
		PM		PM10 / PM2.5	
		(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
CRT Saws	99.90%	0.05	0.21	0.02	0.11

**Note:**

Emission factor is based on mass balance information provided by source during the permitting of 063-35580-00064.  
 Assumed PM10 = 50% PM  
 Assumed PM2.5 = PM10

**Methodology:**

PM PTE Before Control (lbs/hr) = Maximum Capacity (tubes/hr) \* PM Emission Factor (lbs/tube)  
 PM PTE Before Control (tons/yr) = PM PTE Before Control (lbs/hr) \* 8,760 hrs / 2,000 lbs  
 PM10/PM2.5 PTE Before Control (lbs/hr) = PM PTE Before Control (lbs/hr) \* 50%  
 PM10/PM2.5 PTE Before Control (tons/yr) = PM10/PM2.5 PTE Before Control (lbs/hr) \* 8,760 hrs / 2,000 lbs  
 After Control (lbs/hr) = Before Control (lbs/hr) \* (1- Control Efficiency (%))  
 After Control (tons/yr) = After Control (lbs/hr) \* 8,760 hrs / 2,000 lbs

HAP Percentages					
Antimony	Cadmium	Chromium	Colbalt	Nickel	Lead
(%)	(%)	(%)	(%)	(%)	(%)
0.038%	0.052%	0.005%	0.001%	0.048%	2.80%

HAP Emissions Before Controls					
Antimony	Cadmium	Chromium	Colbalt	Nickel	Lead
(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
0.08	0.11	0.01	1.23E-03	0.10	5.92

HAP Emissions After Controls					
Antimony	Cadmium	Chromium	Colbalt	Nickel	Lead
(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
8.12E-05	1.11E-04	9.58E-06	1.23E-06	1.01E-04	5.92E-03

<b>Worst HAP (before control)</b>
(tons/yr)
<b>5.92E+00</b>

(lead)

<b>Worst HAP (after control)</b>
(tons/yr)
<b>5.92E-03</b>

(lead)

<b>Combined HAPs (before control)</b>
(tons/yr)
<b>6.22</b>

<b>Combined HAPs (after control)</b>
(tons/yr)
<b>6.22E-03</b>

**Note:**

HAP Percentages provided by source based on Glass Dust Lab Analysis

**Methodology:**

HAP Emissions Before Control (lbs/hr) = PM PTE Before Control (tons/yr) \* Maximum HAP Content (%)  
 HAP Emissions After Control (lbs/hr) = Before Control (tons/yr) \* (1- Control Efficiency (%))

**Appendix A: Emissions Calculations  
CRT Conveyor Emissions**

**Company Name: Electronic Recyclers Int'l Inc.  
Address City IN Zip: 2540 Airwest Boulevard, Plainfield, IN 46168  
Permit Number: F063-36879-00064  
Reviewer: Katrina Gilbank**

**Conveyors**

Process Description	Number of Emission Points	Maximum Capacity (tons/hr)	PM Emission Factor (lbs/ton)	PTE of PM (lb/hr)	PTE of PM (tons/yr)	PM10 Emission Factor (lbs/ton)	PTE of PM10 (tons/yr)	PM2.5 Emission Factor (lbs/ton)	PTE of PM2.5 (tons/yr)
CRT Saws Conveyor Transfer Points	7	2.5	3.00E-03	0.01	0.23	1.10E-03	0.08	1.10E-03	0.08
CRT Tumbler Conveyor Transfer Points	2	2.5	3.00E-03	0.01	0.07	1.10E-03	0.02	1.10E-03	0.02
<b>Potential Emissions:</b>					<b>0.30</b>		<b>0.11</b>		<b>0.11</b>

**Note:**

The emission factor for conveyor transfer points are from AP-42, Chapter 11.19, Table 11.19.2-2 (SCC 3-05-020-06) (8/04).  
No emission factor is identified for PM2.5 for dry conveying, therefore it is assumed PM10 = PM2.5

**Methodology:**

PTE (tons/yr) = Number of Emission Points x Maximum Capacity (tons/hr) x Emission Factor (lbs/ton) x 8760 (hrs/yr) x 1 ton/2000 lbs

PTE of PM (lb/hr) = Maximum Capacity (tons/hr) \* PM Emission Factor (lbs/ton)

HAP Percentages					
Antimony	Cadmium	Chromium	Colbalt	Nickel	Lead
(%)	(%)	(%)	(%)	(%)	(%)
0.038%	0.052%	0.005%	0.001%	0.048%	2.80%

<b>Worst HAPs</b>
<b>(tons/yr)</b>
<b>8.28E-03</b>

Lead

HAP PTE					
Antimony	Cadmium	Chromium	Colbalt	Nickel	Lead
(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
1.14E-04	1.55E-04	1.34E-05	1.71E-06	1.41E-04	<b>8.28E-03</b>

<b>Combined HAPs</b>
<b>(tons/yr)</b>
<b>0.01</b>

**Note:**

HAP Percentages provided by source based on Glass Dust Lab Analysis

**Methodology:**

HAP PTE (tons/yr) = PTE of PM (tons/yr) \* Maximum HAP Content (%)

**Appendix A: Emissions Calculations****CRT Tumbler Emissions**

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**Company Name:** Electronic Recyclers Int'l Inc.  
**Address City IN Zip:** 2540 Airwest Boulevard, Plainfield, IN 46168  
**Permit Number:** F063-36879-00064  
**Reviewer:** Katrina Gilbank

**Particulate Emissions**

Emission Unit(s)	Maximum Capacity (tubes/hr)	Emission Factor (lbs/tube)	PM PTE Before Control		PM10/PM2.5 PTE Before Control	
			(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
CRT Tumbler	130	0.08	10.63	<b>46.57</b>	5.32	<b>23.28</b>

Emission Unit(s)	Control Efficiency (%)	PTE After Control			
		PM		PM10 / PM2.5	
		(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
CRT Tumbler	99.90%	0.01	<b>0.05</b>	0.01	<b>0.02</b>

**Note:**

Emission factor is based on mass balance information provided by source.

Assumed PM10 = 50% PM

Assumed PM2.5 = PM10

**Methodology:**

PM PTE Before Control (lbs/hr) = Maximum Capacity (tubes/hr) \* PM Emission Factor (lbs/tube)

PM PTE Before Control (tons/yr) = PM PTE Before Controls (lbs/hr) \* 8,760 hrs / 2,000 lbs

PM10/PM2.5 PTE Before Control (lbs/hr) = PM PTE Before Control (lbs/hr) \* 50%

PM10/PM2.5 PTE Before Control (tons/yr) = PM10/PM2.5 PTE Before Controls (lbs/hr) \* 8,760 hrs / 2,000 lbs

After Control (lbs/hr) = Before Control (lbs/hr) \* (1- Control Efficiency (%))

After Control (tons/yr) = After Control (lbs/hr) \* 8,760 hrs / 2,000 lbs

<b>HAP Percentages</b>					
Antimony	Cadmium	Chromium	Colbalt	Nickel	Lead
(%)	(%)	(%)	(%)	(%)	(%)
0.038%	0.052%	0.005%	0.001%	0.048%	2.80%

<b>HAP Emissions Before Controls</b>					
Antimony	Cadmium	Chromium	Colbalt	Nickel	Lead
(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
0.02	0.02	0.00	2.70E-04	0.02	<b>1.30</b>

<b>Combined HAPs</b>
(tons/yr)
<b>1.37</b>

<b>HAP Emissions After Controls</b>					
Antimony	Cadmium	Chromium	Colbalt	Nickel	Lead
(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
1.79E-05	2.44E-05	2.11E-06	2.70E-07	2.22E-05	<b>1.30E-03</b>

<b>Combined HAPs</b>
(tons/yr)
<b>1.37E-03</b>

**Note:**

HAP Percentages provided by source based on Glass Dust Lab Analysis

**Methodology:**

HAP Emissions Before Control (lbs/hr) = PM PTE Before Control (tons/yr) \* Maximum HAP Content (%)

HAP Emissions After Control (lbs/hr) = Before Control (tons/yr) \* (1- Control Efficiency (%))

**Appendix A: Emissions Calculations**  
**E-Waste Shredder Process (exhausting to DFO 3-48) Emissions**

**Company Name:** Electronic Recyclers Int'l Inc.  
**Address City IN Zip:** 2540 Airwest Boulevard, Plainfield, IN 46168  
**Permit Number:** F063-36879-00064  
**Reviewer:** Katrina Gilbank

Emission Unit(s)	Maximum Capacity (tons/hr)	PM Emission Factor (lbs/ton)	PM PTE Before Control		PM10/PM2.5 PTE Before Control	
			(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
Shredder, Magnetic Belt Separator, Eddy Current Sorters, Sizer	8.75	1.93	16.89	<b>73.99</b>	8.45	<b>36.99</b>

Emission Unit(s)	Control Efficiency (%)	PM PTE After Control		PM10/PM2.5 PTE After Control	
		(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
Shredder, Magnetic Belt Separator, Eddy Current Sorters, Sizer	99.90%	0.02	<b>0.07</b>	0.01	<b>0.04</b>

**Note:**

Emission factor is based on mass balance information provided by source.  
 Assumed PM10 = 50% PM  
 Assumed PM2.5 = PM10  
 Emissions from the Shredder, Magnetic Belt Separator, Sizer, and Eddy Current Sorter are all controlled by the Donaldson Baghouse (DFO 3-48).

**Methodology:**

PM PTE Before Control (lbs/hr) = Maximum Capacity (tubes/hr) \* PM Emission Factor (lbs/tube)  
 PM PTE Before Control (tons/yr) = PM PTE Before Controls (lbs/hr) \* 8,760 hrs / 2,000 lbs  
 PM10/PM2.5 PTE Before Control (lbs/hr) = PM PTE Before Control (lbs/hr) \* 50%  
 PM10/PM2.5 PTE Before Control (tons/yr) = PM10/PM2.5 PTE Before Controls (lbs/hr) \* 8,760 hrs / 2,000 lbs  
 After Control (lbs/hr) = Before Control (lbs/hr) \* (1 - Control Efficiency (%))  
 After Control (tons/yr) = After Control (lbs/hr) \* 8,760 hrs / 2,000 lbs

HAP Percentages								
Antimony	Arsenic	Cadmium	Chromium	Colbalt	Nickel	Selenium	Mercury	Lead
(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
0.0471%	0.0011%	0.0143%	0.0161%	0.0080%	0.1130%	0.0008%	0.0009%	0.8840%

HAP Emissions Before Controls								
Antimony	Arsenic	Cadmium	Chromium	Colbalt	Nickel	Selenium	Mercury	Lead
(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
0.03	8.06E-04	0.01	0.01	5.88E-03	0.08	5.99E-04	6.73E-04	<b>0.65</b>

<b>Combined HAPs</b>
<b>(tons/yr)</b>
<b>0.80</b>

HAP Emissions After Controls								
Antimony	Arsenic	Cadmium	Chromium	Colbalt	Nickel	Selenium	Mercury	Lead
(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
3.48E-05	8.06E-07	1.06E-05	1.19E-05	5.88E-06	8.36E-05	5.99E-07	6.73E-07	<b>6.54E-04</b>

<b>Combined HAPs</b>
<b>(tons/yr)</b>
<b>8.03E-04</b>

**Note:**

HAP Percentages provided by source based on Glass Dust Lab Analysis

**Methodology:**

HAP Emissions Before Control (tons/yr) = PM PTE Before Control (tons/yr) \* Maximum HAP Content (%)  
 HAP Emissions After Control (tons/yr) = Before Control (tons/yr) \* (1 - Control Efficiency (%))

**Appendix A: Emissions Calculations  
Shredder Conveyor System Emissions**

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**Company Name:** Electronic Recyclers Int'l Inc.  
**Address City IN Zip:** 2540 Airwest Boulevard, Plainfield, IN 46168  
**Permit Number:** F063-36879-00064  
**Reviewer:** Katrina Gilbank

**Conveyors**

Process Description	Number of Emission Points	Maximum Capacity (tons/hr)	PM Emission Factor (lbs/ton)	PTE of PM (lb/hr)	PTE of PM (tons/yr)	PM10 Emission Factor (lbs/ton)	PTE of PM10 (tons/yr)	PM2.5 Emission Factor (lbs/ton)	PTE of PM2.5 (tons/yr)
Shredder Conveyor Transfer Points	16	8.75	3.00E-03	0.03	1.84	1.10E-03	0.67	1.10E-03	0.67
<b>Potential Emissions:</b>					<b>1.84</b>		<b>0.67</b>		<b>0.67</b>

**Note:**

The emission factor for conveyor transfer points are from AP-42, Chapter 11.19, Table 11.19.2-2 (SCC 3-05-020-06) (8/04).  
 No emission factor is identified for PM2.5 for dry conveying, therefore it is assumed PM10 = PM2.5

**Methodology:**

PTE (tons/yr) = Number of Emission Points x Maximum Capacity (tons/hr) x Emission Factor (lbs/ton) x 8760 (hrs/yr) x 1 ton/2000 lbs  
 PTE of PM (lb/hr) = Maximum Capacity (tons/hr) \* PM Emission Factor (lbs/ton)  
 PTE of Lead (tons/yr) = PTE of PM (tons/yr) \* Maximum Lead Content (%)

HAP Percentages								
Antimony	Arsenic	Cadmium	Chromium	Colbalt	Nickel	Selenium	Mercury	Lead
(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
0.0471%	0.0011%	0.0143%	0.0161%	0.0080%	0.1130%	0.0008%	0.0009%	0.8840%

HAP PTE								
Antimony	Arsenic	Cadmium	Chromium	Colbalt	Nickel	Selenium	Mercury	Lead
(tons/yr)								
8.66E-04	2.01E-05	2.63E-04	2.96E-04	1.46E-04	2.08E-03	1.49E-05	1.67E-05	<b>0.02</b>

<b>Combined HAPs</b>
<b>(tons/yr)</b>
<b>0.02</b>

**Note:**

HAP Percentages provided by source based on Shredder Dust Lab Analysis

**Methodology:**

HAP PTE (tons/yr) = PTE of PM (tons/yr) \* Maximum HAP Content (%)

**Appendix A: Emissions Calculations**  
**E-Waste Shredder Process (exhausting to DFO 3-60) Emissions**

**Company Name: Electronic Recyclers Int'l Inc.**  
**Address City IN Zip: 2540 Airwest Boulevard, Plainfield, IN 46168**  
**Permit Number: F063-36879-00064**  
**Reviewer: Katrina Gilbank**

Emission Unit(s)	Maximum Capacity (tons/hr)	PM Emission Factor (lbs/ton)	PM PTE Before Control		PM10/PM2.5 PTE Before Control	
			(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
Finders	4.11	0.82	3.38	<b>14.80</b>	1.69	<b>7.40</b>

Emission Unit(s)	Control Efficiency (%)	PM PTE After Control		PM10/PM2.5 PTE After Control	
		(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
Finders	99.90%	3.38E-03	<b>1.48E-02</b>	1.69E-03	<b>7.40E-03</b>

**Note:**  
Emission factor is based on mass balance information provided by source.  
Assumed PM10 = 50% PM  
Assumed PM2.5 = PM10  
Emissions from the Finders emission unit is controlled by the Donaldson Baghouse (DFO 3-60).

**Methodology:**  
PM PTE Before Control (lbs/hr) = Maximum Capacity (tubes/hr) \* PM Emission Factor (lbs/tube)  
PM PTE Before Control (tons/yr) = PM PTE Before Controls (lbs/hr) \* 8,760 hrs / 2,000 lbs  
PM10/PM2.5 PTE Before Control (lbs/hr) = PM PTE Before Control (lbs/hr) \* 50%  
PM10/PM2.5 PTE Before Control (tons/yr) = PM10/PM2.5 PTE Before Controls (lbs/hr) \* 8,760 hrs / 2,000 lbs  
After Control (lbs/hr) = Before Control (lbs/hr) \* (1- Control Efficiency (%))  
After Control (tons/yr) = After Control (lbs/hr) \* 8,760 hrs / 2,000 lbs

HAP Percentages								
Antimony	Arsenic	Cadmium	Chromium	Colbalt	Nickel	Selenium	Mercury	Lead
(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
0.0471%	0.0011%	0.0143%	0.0161%	0.0080%	0.1130%	0.0008%	0.0009%	0.8840%

HAP Emissions Before Controls								
Antimony	Arsenic	Cadmium	Chromium	Colbalt	Nickel	Selenium	Mercury	Lead
(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
0.01	1.61E-04	2.12E-03	2.38E-03	1.18E-03	0.02	1.20E-04	1.35E-04	<b>0.13</b>

<b>Combined HAPs</b>
<b>(tons/yr)</b>
<b>0.16</b>

HAP Emissions After Controls								
Antimony	Arsenic	Cadmium	Chromium	Colbalt	Nickel	Selenium	Mercury	Lead
(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
6.97E-06	1.61E-07	2.12E-06	2.38E-06	1.18E-06	1.67E-05	1.20E-07	1.35E-07	<b>1.31E-04</b>

<b>Combined HAPs</b>
<b>(tons/yr)</b>
<b>1.61E-04</b>

**Note:**  
HAP Percentages provided by source based on Glass Dust Lab Analysis

**Methodology:**  
HAP Emissions Before Control (tons/yr) = PM PTE Before Control (tons/yr) \* Maximum HAP Content (%)  
HAP Emissions After Control (tons/yr) = Before Control (tons/yr) \* (1- Control Efficiency (%))

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

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**Company Name: Electronic Recyclers Int'l Inc.**  
**Address City IN Zip: 2540 Airwest Boulevard, Plainfield, IN 46168**  
**Permit Number: F063-36879-00064**  
**Reviewer: Katrina Gilbank**

Heat Input Capacity <u>MMBtu/hr</u> 15.60 15.60	Potential Throughput <u>MMCF/yr</u> 136.66 136.66	Emission Unit <u>ID</u> Six (6) Air Make-up units @ 2.6 MMBtu/hr, each.
--	--	---

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.13	0.52	0.04	6.83	0.38	5.74

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

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

**Methodology:**

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

**Hazardous Air Pollutants**

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.435E-04	8.199E-05	5.125E-03	1.23E-01	2.323E-04

Emission Factor in lb/MMcf	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	3.416E-05	7.516E-05	9.566E-05	2.596E-05	1.435E-04

**Combined HAPs: 0.13**  
**Worst HAP: 1.230E-01 Hexane**

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

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

**Appendix A: Emissions Calculations**  
**Tumbler 2 Emissions**

Page 9 of 10 App A TSD

**Company Name:** Electronic Recyclers Int'l Inc.  
**Address City IN Zip:** 2540 Airwest Boulevard, Plainfield, IN 46168  
**Permit Number:** F063-36879-00064  
**Reviewer:** Katrina Gilbank

**Particulate Emissions**

Emission Unit(s)	Maximum Capacity (lb/hr)	Emission Factor (lb/ton)	PM PTE Before Control		Control Efficiency (%)	PM PTE After Control	
			(lbs/hr)	(tons/yr)		(lbs/hr)	(tons/yr)
Tumbler 2	5000	0.146	0.365	<b>1.60</b>	99.00%	3.65E-03	<b>0.02</b>

**Note:**

Emission factor is based on mass balance information provided by source.  
 Assumed PM=PM10=PM2.5

**Methodology:**

PM PTE Before Control (lbs/hr) = Maximum Capacity (lb/hr) \* Emission Factor (lb/ton) \* 1 ton/2000 lb  
 PM PTE Before Control (tons/yr) = PM PTE Before Controls (lbs/hr) \* 8,760 hrs / 2,000 lbs  
 After Control (lbs/hr) = Before Control (lbs/hr) \* (1- Control Efficiency (%))  
 After Control (tons/yr) = After Control (lbs/hr) \* 8,760 hrs / 2,000 lbs

**Conveyors**

Process Description	Number of Emission Points	Maximum Capacity (tons/hr)	PM		PM10		PM2.5		
			Emission Factor (lbs/ton)	PTE of PM (lb/hr)	Emission Factor (lbs/ton)	PTE of PM10 (tons/yr)	Emission Factor (lbs/ton)	PTE of PM2.5 (tons/yr)	
Charging Conveyor	1	2.5	3.00E-03	7.50E-03	3.29E-02	1.10E-03	1.20E-02	1.10E-03	1.20E-02
Sorting Conveyor	2	2.5	3.00E-03	7.50E-03	6.57E-02	1.10E-03	2.41E-02	1.10E-03	2.41E-02
<b>Potential Emissions:</b>					<b>9.86E-02</b>		<b>3.61E-02</b>		<b>3.61E-02</b>

**Note:**

The emission factor for conveyor transfer points are from AP-42, Chapter 11.19, Table 11.19.2-2 (SCC 3-05-020-06) (8/04).  
 No emission factor is identified for PM2.5 for dry conveying, therefore it is assumed PM10 = PM2.5

**Methodology:**

PTE (lb/hr) = Maximum Capacity (tons/hr) \* Emission Factor (lbs/ton)  
 PTE (tons/yr) = Number of Emission Points x Maximum Capacity (tons/hr) x Emission Factor (lbs/ton) x 8760 (hrs/yr) x 1 ton/2000 lbs

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

**Company Name: Electronic Recyclers Int'l Inc.  
Address City IN Zip: 2540 Airwest Boulevard, Plainfield, IN 46168  
Permit Number: F063-36879-00064  
Reviewer: Katrina Gilbank**

**Paved Roads at Industrial Site**

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

Vehicle Information (provided by source)

Type	Number of one-way trips per hour per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Fully Loaded Big Rig	1.2	28.80	40.0	1152.00	342	0.065	1.87	680.89
Empty Big Rig	1.2	28.80	18.0	518.40	342	0.065	1.87	680.89
<b>Total</b>		<b>57.60</b>		<b>1670.40</b>			<b>3.73</b>	<b>1361.78</b>

Average Vehicle Weight Per Trip =  $\frac{29.00}{0.06}$  tons/trip  
Average Miles Per Trip =  $\frac{0.06}{0.06}$  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 =	29.0	29.0	29.0	tons = average vehicle weight (provided by source)
sL =	9.7	9.7	9.7	g/m <sup>2</sup> = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3)

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

Mitigated Emission Factor, Eext =  $Ef * [1 - (p/4N)]$   
where p =  $\frac{125}{365}$  days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)  
N =  $\frac{365}{365}$  days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	2.698	0.540	0.1324	lb/mile
Mitigated Emission Factor, Eext =	2.467	0.493	0.1211	lb/mile

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
Fully Loaded Big Rig	0.92	0.18	0.05	0.84	0.17	0.04
Empty Big Rig	0.92	0.18	0.05	0.84	0.17	0.04
<b>Total</b>	<b>1.84</b>	<b>0.37</b>	<b>0.09</b>	<b>1.68</b>	<b>0.34</b>	<b>0.08</b>

**Methodology**

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

**Abbreviations**

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



# Indiana Department of Environmental Management

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

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

**Michael R. Pence**  
Governor

**Carol S. Comer**  
Commissioner

April 20, 2016

John Reick  
Electronic Recyclers International, Inc.  
PO Box 2428  
Fresno, CA 93745

Re: Public Notice  
Electronic Recyclers International, Inc.  
Permit Level: FESOP - Renewal  
Permit Number: 063 - 36879 - 00064

Dear John Reick:

Enclosed is a copy of your draft FESOP - Renewal, Technical Support Document, emission calculations, and the Public Notice which will be printed in your local newspaper.

The Office of Air Quality (OAQ) has prepared two versions of the Public Notice Document. The abbreviated version will be published in the newspaper, and the more detailed version will be made available on the IDEM's website and provided to interested parties. Both versions are included for your reference. The OAQ has requested that the Hendricks County Flyer in Avon, Indiana publish the abbreviated version of the public notice no later than April 23, 2016. You will not be responsible for collecting any comments, nor are you responsible for having the notice published in the newspaper.

OAQ has submitted the draft permit package to the Plainfield Public Library, 1120 Stafford Rd in Plainfield IN. 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 enclosed 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 Katrina Gilbank, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 4-9526 or dial (317) 234-9526.

Sincerely,

*Len Pogost*

Len Pogost  
Permits Branch  
Office of Air Quality

Enclosures  
PN Applicant Cover letter 2/17/2016



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Commissioner

## **ATTENTION: PUBLIC NOTICES, LEGAL ADVERTISING**

April 20, 2016

Hendricks County Flyer  
Attn: Classifieds  
8109 Kingston Street, Suite 500  
Avon, Indiana 46123

Enclosed, please find one Indiana Department of Environmental Management Notice of Public Comment for Electronic Recyclers, Hendricks County, Indiana.

Since our agency must comply with requirements which call for a Notice of Public Comment, we request that you print this notice one time, no later than April 23, 2016.

Please send a notarized form, clippings showing the date of publication, and the billing to the Indiana Department of Environmental Management, Accounting, Room N1345, 100 North Senate Avenue, Indianapolis, Indiana, 46204.

**To ensure proper payment, please reference account # 100174737.**

We are required by the Auditor's Office to request that you place the Federal ID Number on all claims. If you have any conflicts, questions, or problems with the publishing of this notice or if you do not receive complete public notice information for this notice, please call Len Pogost at 800-451-6027 and ask for extension 3-2803 or dial 317-233-2803.

Sincerely,

*Len Pogost*

Len Pogost  
Permit Branch  
Office of Air Quality

Permit Level: FESOP - Renewal  
Permit Number: 063 - 36879 - 00064

Enclosure  
PN Newspaper.dot 6/13/2013



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**Michael R. Pence**  
Governor

**Carol S. Comer**  
Commissioner

April 20, 2016

To: Plainfield Public Library 1120 Stafford Rd Plainfield IN

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

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

**Applicant Name: Electronic Recyclers International, Inc.**  
**Permit Number: 063 - 36879 - 00064**

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
- Request to publish the Notice of 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.dot 2/17/2016



# Indiana Department of Environmental Management

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**Michael R. Pence**  
Governor

**Carol S. Comer**  
Commissioner

## Notice of Public Comment

**April 20, 2016**  
**Electronic Recyclers International, Inc.**  
**063 - 36879 - 00064**

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has been placed in the Legal Advertising section of your local newspaper. 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 feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at [PPEAR@IDEM.IN.GOV](mailto:PPEAR@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 AAA Cover.dot 2/17/2016

# Mail Code 61-53

IDEM Staff	LPOGOST 4/20/2016 Electronic Recyclers International Incorporated 063 - 36879 - 00064 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:  <b>CERTIFICATE OF MAILING ONLY</b>	

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		John Reick Electronic Recyclers International Incorporated PO Box 2428 Fresno CA 93745 (Source CAATS)										
2		Aaron Blum Chief Compliance Officer Electronic Recyclers International Incorporated PO Box 2428 Fresno CA 93745 (RO CAATS)										
3		Larry and Becky Bischoff 10979 North Smokey Row Road Mooresville IN 46158 (Affected Party)										
4		Hendricks County Commissioners 355 S Washington Danville IN 46122 (Local Official)										
5		Plainfield Public Library 1120 Stafford Rd Plainfield IN 46168-2230 (Library)										
6		Betty Bartley P.O. Box 149 Danville IN 46122 (Affected Party)										
7		Plainfield Town Council and Town Manager P.O. Box 65 Plainfield IN 46168 (Local Official)										
8		Hendricks County Health Department 355 S Washington Street, Suite 210 Danville IN 46122-1759 (Health Department)										
9												
10												
11												
12												
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