



# 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

**Michael R. Pence**  
Governor

**Thomas W. Easterly**  
Commissioner

TO: Interested Parties / Applicant  
DATE: March 4, 2014  
RE: Fritz Enterprises, Inc. / 089-33900-00543  
FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

## Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

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

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

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

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

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FNPER.dot 6/13/13



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*Commissioner*

**Minor Source Operating Permit Renewal  
OFFICE OF AIR QUALITY**

**Fritz Enterprises, Inc.  
120 N Clark Rd  
Gary, Indiana 46406**

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

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

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

Operation Permit No.: M089-33900-00543	
Issued by:  Jason R. Krawczyk, Section Chief Permits Branch Office of Air Quality	Issuance Date: March 4, 2014  Expiration Date: March 4, 2024



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## SECTION A SOURCE SUMMARY

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

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

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The Permittee owns and operates a stationary steel and slag processing and iron recovery plant.

Source Address:	120 N Clark Rd, Gary, Indiana 46406
General Source Phone Number:	(734) 362-3200
SIC Code:	5093 (Scrap and Waste Materials), 3295 (Minerals and Earths, Ground or Otherwise Treated)
County Location:	Lake
Source Location Status:	Nonattainment for 8-hour ozone standard Attainment for all other criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) One (1) truck unloading operation, identified as L-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (b) One (1) jaw crusher, identified as JC-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (c) One (1) cone crusher, identified as CC-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (d) One (1) 3-deck screen, identified as TS-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (e) One (1) conveyor system, identified as C-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (f) Storage piles, identified as P-1, constructed in 2009, with a total maximum capacity of 600,000 tons per year.
- (g) One (1) portable diesel-fired screen, identified as PS-1, constructed in 2011, with a maximum capacity of 300 tons per hour, utilizing wet suppression as particulate control.
- (h) One (1) 2-deck screen, identified as S-1, permitted in 2012, with a maximum capacity of 300 tons per hour.
- (i) One (1) feeder, identified as F-1, permitted in 2012, with a maximum capacity of 300 tons per hour.

(j) Paved and unpaved roads

## SECTION B GENERAL CONDITIONS

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

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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 2-1.1-1) shall prevail.

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

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- (a) This permit, M089-33900-00543, 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

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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

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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

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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

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

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

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- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

**B.9 Preventive Maintenance Plan [326 IAC 1-6-3]**

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- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.The Permittee shall implement the PMPs.
- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

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

The Permittee shall implement the PMPs.

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

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

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- (a) All terms and conditions of permits established prior to M089-33900-00543 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

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

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

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

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
  - (1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the

document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

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

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

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

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

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

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

**B.14 Source Modification Requirement**

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

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

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

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

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

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

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- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

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

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

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

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

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

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

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

#### C.1 Permit Revocation [326 IAC 2-1.1-9]

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

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

#### C.2 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 twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

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

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

#### C.5 Fugitive Dust Emissions [326 IAC 6-4]

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

**C.6 Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]**

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Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) Material processing facilities shall include the following:
  - (1) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
  - (2) The PM<sub>10</sub> emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
  - (3) The PM<sub>10</sub> stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
  - (4) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
  - (5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (j) Material transfer limits shall be as follows:
  - (1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).

- (2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
- (3) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:
  - (A) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a six (6) minute average.
  - (B) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in 326 IAC 6.8-10-3(9).
- (k) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the attached Fugitive Dust Control Plan.

C.7 Lake County Particulate Matter Contingency Measures [326 IAC 6.8-11]

The Permittee shall comply with the applicable provisions of 326 IAC 6.8-11 (Lake County Particulate Matter Contingency Measures).

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

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

All required notifications shall be submitted to:

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

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

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

#### **C.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.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

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

### **C.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 2-6.1-5(a)(2)]**

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

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

### **C.12 Continuous Compliance Plan [326 IAC 6.8-8-1] [326 IAC 6.8-8-8]**

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- (a) Pursuant to 326 IAC 326 IAC 6.8-8-1, the Permittee shall submit to IDEM and maintain at source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring and record keeping in accordance with the information in 326 IAC 6.8-8-5 through 326 IAC 6.8-8-7 or applicable procedures in the CCP.
- (b) Pursuant to 326 IAC 6.8-8-8, the Permittee shall update the CCP, as needed, retain a copy of any changes and updates to the CCP at the source and make the updated CCP available for inspection by the department. The Permittee shall submit the updated CCP, if required to IDEM, OAQ within thirty (30) days of the update.
- (c) Pursuant to 326 IAC 6.8-8, failure to submit a CCP, maintain all information required by the CCP at the source, or submit update to a CCP is a violation of 326 IAC 6.8-8.

### **C.13 Instrument Specifications [326 IAC 2-1.1-11]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

## **Corrective Actions and Response Steps**

### **C.14 Response to Excursions or Exceedances**

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

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

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

**C.15 Actions Related to Noncompliance Demonstrated by a Stack Test**

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- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

**C.16 Malfunctions Report [326 IAC 1-6-2]**

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

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.17 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.
- (c) If there is a reasonable possibility (as defined in 326 IAC 2-2-8 (b)(6)(A), 326 IAC 2-2-8 (b)(6)(B), 326 IAC 2-3-2 (l)(6)(A), and/or 326 IAC 2-3-2 (l)(6)(B)) that a "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:
  - (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, document and maintain the following records:
    - (A) A description of the project.
    - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
    - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
      - (i) Baseline actual emissions;
      - (ii) Projected actual emissions;
      - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(pp)(2)(A)(iii) and/or 326 IAC 2-3-1 (kk)(2)(A)(iii); and

- (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
  
- (d) If there is a reasonable possibility (as defined in 326 IAC 2-2-8 (b)(6)(A) and/or 326 IAC 2-3-2 (l)(6)(A)) that a "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:
  - (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
  - (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.18 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

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

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
  
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
  
- (c) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
  
- (d) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(oo) and/or 326 IAC 2-3-1(jj)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
  - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (ww) and/or 326 IAC 2-3-1 (pp), for that regulated NSR pollutant, and
  - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).

- (e) The report for project at an existing emissions unit shall be submitted no later than sixty (60) days after the end of the year and contain the following:
- (1) The name, address, and telephone number of the major stationary source.
  - (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
  - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
  - (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part 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

- (f) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

**SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS**

**Emissions Unit Description:**

- (a) One (1) truck unloading operation, identified as L-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (b) One (1) jaw crusher, identified as JC-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (c) One (1) cone crusher, identified as CC-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (d) One (1) 3-deck screen, identified as TS-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (e) One (1) conveyor system, identified as C-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (f) Storage piles, identified as P-1, constructed in 2009, with a total maximum capacity of 600,000 tons per year.
- (g) One (1) portable diesel-fired screen, identified as PS-1, constructed in 2011, with a maximum capacity of 300 tons per hour, utilizing wet suppression as particulate control.
- (h) One (1) 2-deck screen, identified as S-1, permitted in 2012, with a maximum capacity of 300 tons per hour.
- (i) One (1) feeder, identified as F-1, permitted in 2012, with a maximum capacity of 300 tons per hour.
- (j) Paved and unpaved roads

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

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

**D.1.1 Particulate Emissions Limitations for Lake County [326 IAC 6.8]**

Pursuant to 326 IAC 6.8-1-2 Particulate Matter Limitations for Lake County, particulate matter emissions from the crushing and screening operations shall not exceed the limitations contained in the table below:

Emission Unit	Emission Limit (g/dscm)	Equivalent Emission Limit (gr/dscf)
Truck Unloading L-1	0.07	0.03
Jaw Crusher JC-1	0.07	0.03
Cone Crusher CC-1	0.07	0.03
3-Deck Screen TS-1	0.07	0.03
Conveyor System C-1	0.07	0.03
Portable Screen PS-1	0.07	0.03

**D.1.2 Particulate Emission Limitation [326 IAC 2-6.1-6(g)(4)(B)]**

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Pursuant to Minor Permit Revision No. 089-30410-00543 and in order to comply with 326 IAC 2-6.1-6(g)(4)(B) (Minor Permit Revisions), the operating hours for Portable Screen PS-1 shall not exceed 6,325 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with this limit will limit potential particulate emissions from Portable Screen PS-1 to less than twenty-five (25) tons per twelve consecutive month period and shall render the requirements of 326 IAC 2-6.1-6(i)(1)(E)(i)(Significant Permit Revisions) not applicable.

**D.1.3 Preventative Maintenance Plan [326 IAC 1-6-3]**

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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.

**Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)][326 IAC 2-6.1-5(a)(2)]**

**D.1.4 Record Keeping Requirements**

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- (a) To document the compliance status with Condition D.1.2, the Permittee shall maintain monthly records of the operating hours for the Portable Screen PS-1.
- (b) Section C - General Record Keeping Requirements, of this permit contains the Permittee's obligations with regard to the records required by this condition.

**D.1.5 Reporting Requirements**

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A quarterly summary of the information to document the compliance status with Condition D.1.2 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.

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

**MSOP Quarterly Report**

Source Name: Fritz Enterprises, Inc.  
Source Address: 120 N Clark Rd, Gary, Indiana 46406  
MSOP Permit No.: M089-33900-00543  
Source: Portable Screen PS-1  
Parameter: Hours of Operation  
Limit: In order to comply with 326 IAC 2-6.1-6(g)(4)(B) (Minor Permit Revisions), the operating hours for Portable Screen PS-1 shall not exceed 6,325 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

Quarter: \_\_\_\_\_ Year: \_\_\_\_\_

Month	Column 1 (This Month) Hours of Operation	Column 2 (Previous 11 Months) Hours of Operation	Column 1 + Column 2 (12 Month Total) Hours of Operation

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

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

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

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

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

**MINOR SOURCE OPERATING PERMIT  
ANNUAL NOTIFICATION**

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

<b>Company Name:</b>	Fritz Enterprises, Inc.
<b>Address:</b>	120 N Clark Rd
<b>City:</b>	Gary, Indiana 46406
<b>Phone #:</b>	(734) 362-3200
<b>MSOP #:</b>	M089-33900-00543

I hereby certify that Fritz Enterprises, Inc. is :

still in operation.

no longer in operation.

I hereby certify that Fritz Enterprises, Inc. is :

in compliance with the requirements of MSOP M089-33900-00543.

not in compliance with the requirements of MSOP M089-33900-00543.

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

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

<b>Noncompliance:</b>

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

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

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

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

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

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

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

DATE/TIME MALFUNCTION STARTED: \_\_\_\_/\_\_\_\_/20\_\_\_\_    \_\_\_\_\_ AM / PM  
ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: \_\_\_\_\_

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

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

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

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

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL\* SERVICES: \_\_\_\_\_  
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: \_\_\_\_\_  
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: \_\_\_\_\_  
INTERIM CONTROL MEASURES: (IF APPLICABLE) \_\_\_\_\_

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

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

\*SEE PAGE 2

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

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

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

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

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

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

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

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## Attachment A

### FRITZ ENTERPRISES Gary Indiana Facility

March 2009  
(Revised June 2011)

## FUGITIVE DUST CONTROL PLAN

### I. INTRODUCTION

The following control plan is designed to reduce uncontrolled fugitive dust from roadways (travel areas), material storage piles, processing operations and material transfer activities.

This plan is in effect on a year-round basis to reduce uncontrolled fugitive dust. The site supervisor is responsible for implementing the control methods, as required, at the Fritz Enterprises yard.

### II. FACILITY INFORMATION

The following is the name and mailing address of the facility at the Fritz-Gary Plant:

Fritz Enterprises, Inc.  
120 N. Clark Rd.  
Gary, IN 46406

Fritz is a privately held corporation. Mr. Raymond Fritz (Sr. Vice President), or his designee will provide direction and oversight regarding the execution of this control plan. All related correspondence should be mailed to Mr. Fritz at the following address:

Fritz Enterprises, Inc.  
1850 West Jefferson  
Trenton, MI 48183

Telephone: (734) 362-3200  
Facsimile: (734) 362-3250

### III. PROCESS DESCRIPTION

The Fritz process physically separates and sizes slag and iron. The primary pieces of equipment used in the process include: a magnetic separator, jaw crusher, cone crusher and 1 triple-deck screen. A portable screen will also be on site during a portion of each year.

The process begins as steel mill slag containing recoverable steel is received from the Mittal Electric Furnace via trucks. Material is fed to a magnetic separator. Magnetic materials are recovered as scrap steel and stored in a pile. The remaining non-magnetic (primarily slag) materials are then processed through a series of screens and size reduction equipment (jaw crusher and cone crusher). Slag product is stored by size in product storage piles. Slag is sold to a 3<sup>rd</sup> party. Steel is returned to Mittal.

Front-end loaders are utilized for material handling at the raw materials and product storage piles. Conveyors are utilized for in-process material transfers. The facility's total annual throughput is estimated at 600,000 tons of material processed.

### IV. GENERAL FUGITIVE EMISSIONS SOURCES

Visible emissions from any paved or unpaved area shall not exceed 10-percent opacity as averaged over any consecutive 6-minute period. All visible emission observations shall be determined in accordance with 326 IAC 6.8-10-3.

### Paved Roads and Parking Lots

The roads leading to the Fritz yard are paved and maintained by Fritz. Fugitive dusts from paved roads and parking lots are controlled by flushing with water. Flushing is performed, on an as-needed basis, to maintain fugitive particulate emissions below the acceptable opacity specified by 326 IAC 6.8-10-3(1).

### Unpaved Roads and Traffic Areas

The Fritz processing areas are not paved and therefore require the periodic use of a chemical dust suppressant to ensure that the average instantaneous opacity of fugitive particulate emissions does not exceed 10%, pursuant to 326 IAC 6.8-10-3(2). As required, the area is treated with Penta Seal (an asphaltic emulsion) to control the particulate emissions associated with car and equipment traffic in the processing and storage areas.

Treatment of unpaved areas is delayed when:

- 0.1 or more inches of rain have accumulated during the 24-hour period prior to the scheduled treatment, or
- Unpaved areas are saturated with water such that chemical dust suppressants cannot be accepted by the surface, or
- Unpaved areas are frozen or covered by ice, snow, or standing water, or
- The area is closed or abandoned, or
- It is raining at the time of the scheduled treatment.

## **V. SPECIFIC FUGITIVE EMISSION SOURCES**

The following is a list of the process operations that may result in the generation of particulate emissions:

- Material handling activities at the raw material storage piles,
- Jaw crusher to reduce material size,
- Cone crusher to reduce material size,
- Screening operations (one (1) permanent and one (1) portable screen),
- Material transfer on the conveyors, and
- Material handling activities at the product storage piles.

## **VI. CONTROL MEASURES**

With regard to process operations, wet dust suppression will be used as the primary control measure. As required, Fritz personnel will implement wet dust suppression by using a water cannon at the material storage piles, magnetic separator, jaw crusher, cone crusher and screens.

The site supervisor will determine the applicability of control measures on a day-to-day basis, primarily dependent on weather conditions. As required, dust suppression will be implemented in the morning, prior to beginning process operations. Fritz personnel will also be instructed to remain aware of potential changes throughout the day (i.e. drying, wind) that may require application, or reapplication of dust suppression.

## **VII. SCHEDULE**

This Control Plan is in effect during all days of operation at the Fritz facilities. Any modification of this Control Plan, as warranted by process changes, will require submission to the controlling authority for approval prior to implementation.

# Indiana Department of Environmental Management Office of Air Quality

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

### Source Background and Description

<b>Source Name:</b>	<b>Fritz Enterprises, Inc.</b>
<b>Source Location:</b>	<b>120 N Clark Rd, Gary, Indiana 46406</b>
<b>County:</b>	<b>Lake</b>
<b>SIC Code:</b>	<b>5093 (Scrap and Waste Materials), 3295 (Minerals and Earths, Ground or Otherwise Treated)</b>
<b>Permit Renewal No.:</b>	<b>M089-33900-00543</b>
<b>Permit Reviewer:</b>	<b>Curtis Taylor</b>

On January 23, 2014, the Office of Air Quality (OAQ) had a notice published in The Post Tribune, Merrillville, Indiana, stating that Fritz Enterprises, Inc. had applied for a Minor Source Operating Permit (MSOP) Renewal to renew its operating permit. The notice also stated that the OAQ proposed to issue a MSOP Renewal for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

### Comments and Responses

On February 25, 2014, Peter Julovich of the City of Gary, submitted comments to IDEM, OAQ on the draft MSOP Renewal. These comments have been summarized below:

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

#### Comment 1:

Fugitive emissions calculations were not included in the Public Noticed documents for the unpaved roadway traffic. Will the potential to emit particulate matter emissions from these operations have any effect on rule applicability or permit level?

#### Response to Comment 1:

IDEM, OAQ has included unpaved roadway emission calculations in Appendix A to the Addendum to the Technical Support Document. The potential to emit fugitive particulate matter emissions from the unpaved roadways, parking lots, and traffic areas, does not have any effect on permit level or rule applicability. The source is still required to comply with the applicable 326 IAC 6.8 rule requirements and the Fugitive Dust Control Plan included in the permit as Attachment A. No changes were made to the permit as a result of this comment.

#### Comment 2:

The Fugitive Dust Control Plan does not address the heavy vehicles delivery of scrap through the weigh scales nor does it address the other composting related vehicle deliveries through the weigh scales (non-core business). Can you document these other activities into the permit?

**Response to Comment 2:**

IDEM OAQ, believes that the Fugitive Dust Control Plan, included in the permit as Attachment A, is adequate to ensure control of fugitive dust emissions for this source. The Fugitive Dust Control Plan contains specific measures for both paved and unpaved roads, parking lots, and traffic areas. Paved and unpaved roads are already identified in the permit under item "j" in Section A.2. IDEM, OAQ does not specify vehicle types in the emission unit descriptions. In addition, weigh scales are not, by themselves, point sources of emissions, and are therefore not required to be listed as an emission unit within the permit. No changes were made to the permit as a result of this comment.

<b>IDEM Contact</b>
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- (a) Questions regarding this proposed MSOP Renewal can be directed to Curtis Taylor 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) 234-5176 or toll free at 1-800-451-6027 extension 4-5176.
- (b) A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)

**ATSD Appendix A: Emissions Calculations  
Emissions Summary After Revision**

**Company Name: Fritz Enterprises, Inc.  
Source Address: 120 North Clark Road, Gary, IN 46406  
Renewal Permit No.: M089-33900-00543  
Reviewer: Curtis Taylor**

<b>Uncontrolled / Unlimited Potential Emissions (Tons/Year)</b>										
<b>Emissions Units</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>GHGs as CO2e</b>	<b>Worst Single HAP</b>	<b>Total HAPs</b>
Truck Unloading L-1	0.02	0.02	0.02	-	-	-	-	-	-	-
Jaw Crusher JC-1	5.68	2.52	2.52	-	-	-	-	-	-	-
Cone Crusher CC-1	5.68	2.52	2.52	-	-	-	-	-	-	-
3-Deck Screen TS-1	26.28	9.15	9.15	-	-	-	-	-	-	-
Portable Screen PS-1	32.85	11.43	11.43	-	-	-	-	-	-	-
Conveyor System C-1	34.69	12.72	12.72	-	-	-	-	-	-	-
Product Piles P-1	4.84	4.84	4.84	-	-	-	-	-	-	-
2-Deck Screen S-1	32.85	11.43	11.43	-	-	-	-	-	-	-
Feeder F-1	3.94	1.45	1.45	-	-	-	-	-	-	-
Paved Roads	1.76	0.35	0.09	-	-	-	-	-	-	-
Unpaved Roads	3.65	0.93	0.09	-	-	-	-	-	-	-
Diesel Combustion	1.62	1.62	1.62	1.51	22.81	1.85	4.92	849	negl.	0.02
<b>Total</b>	<b>153.85</b>	<b>58.97</b>	<b>57.87</b>	<b>1.51</b>	<b>22.81</b>	<b>1.85</b>	<b>4.92</b>	<b>849</b>	<b>0.00</b>	<b>0.02</b>

<b>Controlled / Unlimited Potential Emissions (Tons/Year)</b>										
<b>Emissions Units</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>GHGs as CO2e</b>	<b>Worst Single HAP</b>	<b>Total HAPs</b>
Truck Unloading L-1	0.02	0.02	0.02	-	-	-	-	-	-	-
Jaw Crusher JC-1	1.26	0.57	0.11	-	-	-	-	-	-	-
Cone Crusher CC-1	1.26	0.57	0.11	-	-	-	-	-	-	-
3-Deck Screen TS-1	2.31	0.78	0.05	-	-	-	-	-	-	-
Portable Screen PS-1	2.89	0.97	0.07	-	-	-	-	-	-	-
Conveyor System C-1	1.62	0.53	0.15	-	-	-	-	-	-	-
Product Piles P-1	4.84	4.84	4.84	-	-	-	-	-	-	-
2-Deck Screen S-1	2.89	0.97	0.07	-	-	-	-	-	-	-
Feeder F-1	0.18	0.06	0.02	-	-	-	-	-	-	-
Paved Roads	0.88	0.18	0.04	-	-	-	-	-	-	-
Unpaved Roads	1.83	0.47	0.05	-	-	-	-	-	-	-
Diesel Combustion	1.62	1.62	1.62	1.51	22.81	1.85	4.92	849	negl.	0.02
<b>Total</b>	<b>21.60</b>	<b>11.56</b>	<b>7.12</b>	<b>1.51</b>	<b>22.81</b>	<b>1.85</b>	<b>4.92</b>	<b>849</b>	<b>0.00</b>	<b>0.02</b>

<b>Uncontrolled / Limited Potential Emissions (Tons/Year)</b>										
<b>Emissions Units</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>GHGs as CO2e</b>	<b>Worst Single HAP</b>	<b>Total HAPs</b>
Truck Unloading L-1	0.02	0.02	0.02	-	-	-	-	-	-	-
Jaw Crusher JC-1	5.68	2.52	2.52	-	-	-	-	-	-	-
Cone Crusher CC-1	5.68	2.52	2.52	-	-	-	-	-	-	-
3-Deck Screen TS-1	26.28	9.15	9.15	-	-	-	-	-	-	-
Portable Screen PS-1	23.72	8.25	8.25	-	-	-	-	-	-	-
Conveyor System C-1	34.69	12.72	11.43	-	-	-	-	-	-	-
Product Piles P-1	4.84	4.84	4.84	-	-	-	-	-	-	-
2-Deck Screen S-1	32.85	11.43	11.43	-	-	-	-	-	-	-
Feeder F-1	3.94	1.45	1.45	-	-	-	-	-	-	-
Paved Roads	1.76	0.35	0.09	-	-	-	-	-	-	-
Unpaved Roads	3.65	0.93	0.09	-	-	-	-	-	-	-
Diesel Combustion	1.17	1.17	1.17	1.09	16.47	1.34	3.55	613	negl.	0.01
<b>Total</b>	<b>144.27</b>	<b>55.35</b>	<b>52.95</b>	<b>1.09</b>	<b>16.47</b>	<b>1.34</b>	<b>3.55</b>	<b>613</b>	<b>0.00</b>	<b>0.01</b>

<b>Controlled / Limited Potential Emissions (Tons/Year)</b>										
<b>Emissions Units</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>GHGs as CO2e</b>	<b>Worst Single HAP</b>	<b>Total HAPs</b>
Truck Unloading L-1	0.02	0.02	0.02	-	-	-	-	-	-	-
Jaw Crusher JC-1	1.26	0.57	0.11	-	-	-	-	-	-	-
Cone Crusher CC-1	1.26	0.57	0.11	-	-	-	-	-	-	-
3-Deck Screen TS-1	2.31	0.78	0.05	-	-	-	-	-	-	-
Portable Screen PS-1	2.09	0.70	0.05	-	-	-	-	-	-	-
Conveyor System C-1	1.62	0.53	0.15	-	-	-	-	-	-	-
Product Piles P-1	4.84	4.84	4.84	-	-	-	-	-	-	-
2-Deck Screen S-1	2.89	0.97	0.07	-	-	-	-	-	-	-
Feeder F-1	0.18	0.06	0.02	-	-	-	-	-	-	-
Paved Roads	0.88	0.18	0.04	-	-	-	-	-	-	-
Unpaved Roads	1.83	0.47	0.05	-	-	-	-	-	-	-
Diesel Combustion	1.17	1.17	1.17	1.09	16.47	1.34	3.55	613	negl.	0.01
<b>Total</b>	<b>20.34</b>	<b>10.84</b>	<b>6.65</b>	<b>1.09</b>	<b>16.47</b>	<b>1.34</b>	<b>3.55</b>	<b>613</b>	<b>0.00</b>	<b>0.01</b>

**ATSD Appendix A: Emissions Calculations  
PM, PM10 and PM2.5 Potential Emissions**

**Company Name: Fritz Enterprises, Inc.  
Source Address: 120 North Clark Road, Gary, IN 46406  
Renewal Permit No.: M089-33900-00543  
Reviewer: Curtis Taylor**

**Uncontrolled Potential Emissions**

Emissions Units	Unlimited Throughput		Limited Throughput		EMISSION FACTORS, lb/ton (AP-42, Table 11.19.2-2)			UNLIMITED ANNUAL EMISSIONS, TPY			LIMITED ANNUAL EMISSIONS, TPY		
	tons/hr	TPY	tons/hr	TPY	PM**	PM-10	PM-2.5**	PM	PM-10	PM-2.5	PM	PM-10	PM-2.5
Truck Unloading L-1	240	2,102,400	240	2,102,400	0.000016	0.000016	0.000016	0.02	0.02	0.02	0.02	0.02	0.02
Jaw Crusher JC-1	240	2,102,400	240	2,102,400	0.0054	0.0024	0.0024	5.68	2.52	2.52	5.68	2.52	2.52
Cone Crusher CC-1	240	2,102,400	240	2,102,400	0.0054	0.0024	0.0024	5.68	2.52	2.52	5.68	2.52	2.52
3-Deck Screen TS-1	240	2,102,400	240	2,102,400	0.025	0.0087	0.0087	26.28	9.15	9.15	26.28	9.15	9.15
Portable Screen PS-1	300	2,628,000	300	1,897,500	0.025	0.0087	0.0087	32.85	11.43	11.43	23.72	8.25	8.25
2-Deck Screen S-1	300	2,628,000	300	2,628,000	0.025	0.0087	0.0087	32.85	11.43	11.43	32.85	11.43	11.43
Feed Conveyor F-1	300	2,628,000	300	2,628,000	0.003	0.0011	0.0011	3.94	1.45	1.45	3.94	1.45	1.45
Conveyor C-1	240	2,102,400	240	2,102,400	0.003	0.0011	0.0011	34.69	12.72	12.72	34.69	12.72	12.72
Product Pile P-1*	240	2,102,400	240	2,102,400	0.0046	0.0046	0.0046	4.84	4.84	4.84	4.84	4.84	4.84
<b>Total</b>								<b>146.82</b>	<b>56.07</b>	<b>56.07</b>	<b>137.69</b>	<b>52.89</b>	<b>52.89</b>

Note:

In order to render the requirements of 326 IAC 2-6.1-6(i)(1)(E)(i)(Significant Permit Revisions) not applicable to Minor Permit Revision No. 089-30410-00543, the Permittee has elected to limit the potential to emit PM for Portable Screen (PS-1) to less than 25 tons per year and to limit the annual hours of operation of the process to less than 6,325 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

**Controlled Potential Emissions**

Emissions Units	Unlimited Throughput		Limited Throughput		EMISSION FACTORS, lb/ton (AP-42, Table 11.19.2-2)			UNLIMITED ANNUAL EMISSIONS, TPY			LIMITED ANNUAL EMISSIONS, TPY			CONTROLS
	tons/hr	TPY	tons/hr	TPY	PM**	PM-10	PM-2.5**	PM	PM-10	PM-2.5	PM	PM-10	PM-2.5	
Truck Unloading L-1	240	2,102,400	240	2,102,400	0.000016	0.000016	0.000016	0.02	0.02	0.02	0.02	0.02	0.02	Wet Suppression
Jaw Crusher JC-1	240	2,102,400	240	2,102,400	0.0012	0.00054	0.0001	1.26	0.57	0.11	1.26	0.57	0.11	Wet Suppression
Cone Crusher CC-1	240	2,102,400	240	2,102,400	0.0012	0.00054	0.0001	1.26	0.57	0.11	1.26	0.57	0.11	Wet Suppression
3-Deck Screen TS-1	240	2,102,400	240	2,102,400	0.0022	0.00074	0.00005	2.31	0.78	0.05	2.31	0.78	0.05	Wet Suppression
Portable Screen PS-1	300	2,628,000	300	1,897,500	0.0022	0.00074	0.00005	2.89	0.97	0.07	2.09	0.70	0.05	Wet Suppression
2-Deck Screen S-1	300	2,628,000	300	2,628,000	0.0022	0.00074	0.00005	2.89	0.97	0.07	2.89	0.97	0.07	Wet Suppression
Feed Conveyor F-1	300	2,628,000	300	2,628,000	0.00014	0.000046	0.000013	0.18	0.06	0.02	0.18	0.06	0.02	Wet Suppression
Conveyor C-1	240	2,102,400	240	2,102,400	0.00014	0.000046	0.000013	1.62	0.53	0.15	1.62	0.53	0.15	Wet Suppression
Product Piles P-1*	240	2,102,400	240	2,102,400	0.0046	0.0046	0.0046	4.84	4.84	4.84	4.84	4.84	4.84	Wet Suppression
<b>Total</b>								<b>17.27</b>	<b>9.30</b>	<b>5.41</b>	<b>16.47</b>	<b>9.03</b>	<b>5.40</b>	

Note:

In order to render the requirements of 326 IAC 2-6.1-6(i)(1)(E)(i)(Significant Permit Revisions) not applicable to this Minor Permit Revision No. 089-30410-00543, the Permittee has elected to limit the potential to emit PM for Portable Screen (PS-1) to less than 25 tons per year and to limit the annual hours of operation of the process to less than 6,325 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

\* Dust is generated as material is added to the storage pile. Assumes a mean wind speed (w) of 15 mph and an average moisture content (m) of 2%. Using the active storage pile formula from the Air Pollution Control Manual (2nd Edition, page 126), the emission factor calculation for PM-10 is  $R \text{ (lb/ton)} = 0.0011 (w/5)^{1.3} * (m/2)^{-1.4}$ .

\*\* Where the emission factor for PM or PM2.5 is not available, the emission factor for the corresponding PM10 is used.

**ATSD Appendix A: Emissions Calculations**  
**Reciprocating Internal Combustion Engines - Diesel Fuel**  
**PS-1**

**Company Name: Fritz Enterprises, Inc.**  
**Source Address: 120 North Clark Road, Gary, IN 46406**  
**Renewal Permit No.: M089-33900-00543**  
**Reviewer: Curtis Taylor**

**Emissions calculated based on output rating (hp)**

Output Horsepower Rating (hp)	168.0
Maximum Hours Operated per Year	8760
Potential Throughput (hp-hr/yr)	1,471,680

Output Horsepower Rating (hp)	168.0
Limited Hours Operated per Year	6325
Potential Throughput (hp-hr/yr)	1,062,600

	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Unlimited Potential Emission in tons/yr	1.62	1.62	1.62	1.51	22.81	1.85	4.92
<b>Limited Potential Emissions in tons/yr</b>	<b>1.17</b>	<b>1.17</b>	<b>1.17</b>	<b>1.09</b>	<b>16.47</b>	<b>1.34</b>	<b>3.55</b>

\*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

**Hazardous Air Pollutants (HAPs)**

	Pollutant							Total PAH HAPs***
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	
Emission Factor in lb/hp-hr****	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Unlimited Potential Emission in tons/yr	4.81E-03	2.11E-03	1.47E-03	2.01E-04	6.08E-03	3.95E-03	4.76E-04	8.65E-04
<b>Limited Potential Emissions in tons/yr</b>	<b>3.47E-03</b>	<b>1.52E-03</b>	<b>1.06E-03</b>	<b>1.45E-04</b>	<b>4.39E-03</b>	<b>2.85E-03</b>	<b>3.44E-04</b>	<b>6.25E-04</b>

\*\*\*PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

\*\*\*\*Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Unlimited Potential Emission of Total HAPs (tons/yr)	0.02
<b>Limited Potential Emission of Total HAPs (tons/yr)</b>	<b>0.01</b>

**Green House Gas Emissions (GHG)**

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/hp-hr	1.15E+00	4.63E-05	9.26E-06
Unlimited Potential Emission in tons/yr	8.46E+02	3.41E-02	6.81E-03
<b>Limited Potential Emission in tons/yr</b>	<b>6.11E+02</b>	<b>2.46E-02</b>	<b>4.92E-03</b>

<b>Summed Potential Emissions in tons/yr</b>	<b>846</b>
<b>Unlimited CO2e Total in tons/yr</b>	<b>849</b>
<b>Limited CO2e Total in tons/yr</b>	<b>613</b>

CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.  
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

**Methodology**

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] \* [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] \* [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

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

**Company Name: Fritz Enterprises, Inc.  
Source Address: 120 North Clark Road, Gary, IN 46406  
Renewal Permit No.: M089-33900-00543  
Reviewer: Curtis Taylor**

**Paved Roads at Industrial Site**

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

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	20.0	1.0	20.0	25.0	500.0	600	0.114	2.3	829.5
Vehicle (leaving plant) (one-way trip)	20.0	1.0	20.0	25.0	500.0	600	0.114	2.3	829.5
<b>Total</b>			<b>40.0</b>		<b>1000.0</b>			<b>4.5</b>	<b>1659.1</b>

Average Vehicle Weight Per Trip = 25.0 tons/trip  
Average Miles Per Trip = 0.11 miles/trip

Unmitigated Emission Factor, Ef = [k \* (sL)<sup>0.91</sup> \* (W)<sup>1.02</sup>] (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 =	25.0	25.0	25.0	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 = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)  
N = 365 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	2.319	0.464	0.1138	lb/mile
Mitigated Emission Factor, Eext =	2.120	0.424	0.1041	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

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)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Vehicle (entering plant) (one-way trip)	0.96	0.19	0.05	0.88	0.18	0.04	0.44	0.09	0.02
Vehicle (leaving plant) (one-way trip)	0.96	0.19	0.05	0.88	0.18	0.04	0.44	0.09	0.02
	<b>1.92</b>	<b>0.38</b>	<b>0.09</b>	<b>1.76</b>	<b>0.35</b>	<b>0.09</b>	<b>0.88</b>	<b>0.18</b>	<b>0.04</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)  
Controlled PTE (tons/yr) = [Mitigated PTE (tons/yr)] \* [1 - Dust Control Efficiency]

**Abbreviations**

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

**ATSD Appendix A: Emissions Calculations  
Fugitive Dust Emissions - Unpaved Roads**

**Company Name: Fritz Enterprises, Inc.  
Source Address: 120 North Clark Road, Gary, IN 46406  
Renewal Permit No.: M089-33900-00543  
Reviewer: Curtis Taylor**

**Unpaved Roads at Industrial Site**

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

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	20.0	1.0	20.0	25.0	500.0	600	0.114	2.3	829.5
Vehicle (leaving plant) (one-way trip)	20.0	1.0	20.0	25.0	500.0	600	0.114	2.3	829.5
<b>Totals</b>			<b>40.0</b>		<b>1000.0</b>			<b>4.5</b>	<b>1659.1</b>

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

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

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	4.8	4.8	4.8	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Sand/Gravel Processing Plant)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	25.0	25.0	25.0	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext =  $E \cdot [(365 - P)/365]$  (Equation 2 from AP-42 13.2.2)

Mitigated Emission Factor, Eext =  $E \cdot [(365 - P)/365]$   
where P =  days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	6.70	1.71	0.17	lb/mile
Mitigated Emission Factor, Eext =	4.40	1.12	0.11	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

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)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Vehicle (entering plant) (one-way trip)	2.78	0.71	0.07	1.83	0.47	0.05	0.91	0.23	0.02
Vehicle (leaving plant) (one-way trip)	2.78	0.71	0.07	1.83	0.47	0.05	0.91	0.23	0.02
<b>Totals</b>	<b>5.56</b>	<b>1.42</b>	<b>0.14</b>	<b>3.65</b>	<b>0.93</b>	<b>0.09</b>	<b>1.83</b>	<b>0.47</b>	<b>0.05</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)  
Controlled PTE (tons/yr) = (Mitigated PTE (tons/yr)) \* (1 - Dust Control Efficiency)

**Abbreviations**

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

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

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

<b>Source Background and Description</b>
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<b>Source Name:</b>	<b>Fritz Enterprises, Inc.</b>
<b>Source Location:</b>	<b>120 N Clark Rd, Gary, Indiana 46406</b>
<b>County:</b>	<b>Lake</b>
<b>SIC Code:</b>	<b>5093 (Scrap and Waste Materials), 3295 (Minerals and Earths, Ground or Otherwise Treated)</b>
<b>Permit Renewal No.:</b>	<b>M089-33900-00543</b>
<b>Permit Reviewer:</b>	<b>Curtis Taylor</b>

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Fritz Enterprises, Inc. relating to the operation of a stationary steel and slag processing and iron recovery plant. On November 20, 2013, Fritz Enterprises, Inc. submitted an application to the OAQ requesting to renew its operating permit. Fritz Enterprises, Inc. was issued MSOP permit No. M089-27458-00543 on May 7, 2009.

<b>Source Definition</b>
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Fritz Enterprises, Inc. (Fritz) operates a stationary steel and slag processing and iron recovery plant (ID 089-00543) located at 120 North Clark Road in Gary. The plant receives slag from the Arcelor-Mittal (Mittal) steel plant (ID 089-00318) located at 3001 Dickey Road, East Chicago. Slag is a by-product of steel production. IDEM, OAQ has examined whether the two plants will be part of the same major source.

The term "major source" is defined at 326 IAC 2-7-22. In order for these two plants to be considered one major source they must meet all three of the following elements:

- (1) the plants must be under common ownership or common control;
- (2) the plants must have the same two-digit Standard Industrial Classification (SIC) Code or one must serve as a support facility for the other; and,
- (3) the plants must be located on contiguous or adjacent properties.

IDEM, OAQ first looked at whether the two plants were under common ownership or common control. The two plants do not have common owners. There is no contract between the two plants. Though Fritz initially received 100% of its input from Mittal, without a contract it is free to do slag processing for other plants. Fritz anticipated negotiating slag purchase agreements with other steel producers in the area. The plants are not under common ownership or common control so the first element of the definition was not met.

The second element of the source definition is whether the plants have the same two-digit Standard Industrial Classification (SIC) Code, or if one serves as a support facility for the other. The SIC Codes can be found at <http://www.osha.gov/pls/imis/sicsearch.html> on the United States Department of Labor, Occupational Safety and Health Administration website. The proper two-digit code for Fritz is Major Group 32: Stone, Clay, Glass and Concrete Products, which includes establishments primarily crushing slag. The two-digit SIC Code for Mittal is Major Group 33: Primary Metal Industries, which includes steel production. The two plants have different two-digit SIC Codes.

A plant is considered a support facility if at least 50% of its total output is dedicated to the other plant. Fritz returns metal separated from the slag to Mittal, but this is less than 50% of all the material Fritz produces. Initially, Fritz dedicated over 50% of its slag handling capacity to Mittal, so that Mittal could send all of its slag to Fritz. Initially 100% of the slag that Fritz processed was from Mittal. Fritz is a support facility to Mittal. Therefore the second element of the definition is met.

The plants are located on properties approximately 6 miles apart. Trucks from Mittal bring the slag to Fritz over public roadways. There is no direct connection between the plants. The plants are not adjacent and the third element of the definition is not met.

Therefore, based on this evaluation these plants are still not considered one (1) major source, as defined by 326 IAC 2-7-1(22). This conclusion was initially determined under MSOP No. M089-27458-000543, issued on May 7, 2009.

### Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

- (a) One (1) truck unloading operation, identified as L-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (b) One (1) jaw crusher, identified as JC-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (c) One (1) cone crusher, identified as CC-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (d) One (1) 3-deck screen, identified as TS-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (e) One (1) conveyor system, identified as C-1, constructed in 2009, with a maximum capacity of 240 tons per hour.
- (f) Storage piles, identified as P-1, constructed in 2009, with a total maximum capacity of 600,000 tons per year.
- (g) One (1) portable diesel-fired screen, identified as PS-1, constructed in 2011, with a maximum capacity of 300 tons per hour, utilizing wet suppression as particulate control.
- (h) One (1) 2-deck screen, identified as S-1, permitted in 2012, with a maximum capacity of 300 tons per hour.
- (i) One (1) feeder, identified as F-1, permitted in 2012, with a maximum capacity of 300 tons per hour.
- (j) Paved and unpaved roads

### Existing Approvals

Since the issuance of the MSOP No. M089-27458-00543 on May 7, 2009, the source has constructed or has been operating under the following additional approvals:

- (a) Minor Permit Revision No. 089-30410-00543, issued on June 15, 2011; and
- (b) MSOP - Notice-Only Change No. 089-32145-00543, issued on August 28, 2012.

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 pending enforcement actions related to this source.

**Emission Calculations**

See Appendix A of this document for detailed emission calculations.

**County Attainment Status**

The source is located in Lake County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 <sup>th</sup> Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O <sub>3</sub>	On June 11, 2012, the U.S. EPA designated Lake County nonattainment, for the 8-hour ozone standard.
PM <sub>10</sub>	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.
<sup>1</sup> The U. S. EPA has acknowledged in both the proposed and final rulemaking for this redesignation that the anti-backsliding provisions for the 1-hour ozone standard no longer apply as a result of the redesignation under the 8-hour ozone standard. Therefore, permits in Lake County are no longer subject to review pursuant to Emission Offset, 326 IAC 2-3. Unclassifiable or attainment effective February 6, 2012, for PM <sub>2.5</sub> .	

- (a) **Ozone Standards**  
 U.S. EPA, in the Federal Register Notice 77 FR 112 dated June 11, 2012, has designated Lake County as nonattainment for ozone. On August 1, 2012, the air pollution control board issued an emergency rule adopting the U.S. EPA's designation. This rule became effective August 9, 2012. IDEM does not agree with U.S. EPA's designation of nonattainment. IDEM filed a suit against U.S. EPA in the U.S. Court of Appeals for the DC Circuit on July 19, 2012. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's designation. 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. Therefore, VOC and NO<sub>x</sub> emissions were evaluated pursuant to the requirements of Emission Offset, 326 IAC 2-3.
  
- (b) **PM<sub>2.5</sub>**  
 Lake County has been classified as attainment for PM<sub>2.5</sub>. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM<sub>2.5</sub> emissions. These rules became effective on July 15, 2008. On May 4, 2011, the air

pollution control board issued an emergency rule establishing the direct PM<sub>2.5</sub> significant level at ten (10) tons per year. This rule became effective June 28, 2011. Therefore, direct PM<sub>2.5</sub>, 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

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

**Fugitive Emissions**

The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.

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.

**Uncontrolled & Unlimited Potential Emissions**

This table reflects the unrestricted potential emissions of the source.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM	Greater than 100, less than 250
PM <sub>10</sub>	Greater than 25, Less than 100
PM <sub>2.5</sub>	Greater than 25, Less than 100
SO <sub>2</sub>	Less than 25
VOC	Less than 25
CO	Less than 25
NO <sub>x</sub>	Less than 25
GHGs as CO <sub>2</sub> e	Less than 100,000
Single HAP	Less than 10
Total HAP	Less than 25

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

- (a) The potential to emit (as defined in 326 IAC 2-7-1(30)) of all regulated pollutants, excluding GHGs, is less than 100 tons per year. However, PM is equal to or greater than twenty-five (25) tons per year. The source is not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued an MSOP Renewal.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(30)) of GHGs is less than one hundred thousand (100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per year.

- (c) The potential to emit (as defined in 326 IAC 2-7-1(30)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(30)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source will be issued an MSOP Renewal.

**Potential to Emit After Issuance**

The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this MSOP 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 (tons/year)									
	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs CO <sub>2e</sub>	Total HAPs	Worst Single HAP
Truck Unloading L-1	0.02	0.02	0.02	-	-	-	-	-	-	-
Jaw Crusher JC-1	5.68	2.52	2.52	-	-	-	-	-	-	-
Cone Crusher CC-1	5.68	2.52	2.52	-	-	-	-	-	-	-
3-Deck Screen TS-1	26.28	9.15	9.15	-	-	-	-	-	-	-
Portable Screen PS-1	23.72	8.25	8.25	-	-	-	-	-	-	-
Conveyor System C-1	34.69	12.72	11.43	-	-	-	-	-	-	-
Product Pile P-1	4.84	4.84	4.84	-	-	-	-	-	-	-
2-Deck Screen S-1	32.85	11.43	11.43	-	-	-	-	-	-	-
Feeder F-1	3.94	1.45	1.45	-	-	-	-	-	-	-
Paved Roads**	1.76	0.35	0.09	-	-	-	-	-	-	-
Diesel Combustion	1.17	1.17	1.17	1.09	16.47	1.34	3.55	613	0.01	negl.
<b>Total PTE of Entire Source</b>	<b>140.61</b>	<b>54.42</b>	<b>52.86</b>	<b>1.09</b>	<b>16.47</b>	<b>1.34</b>	<b>3.55</b>	<b>613</b>	<b>0.01</b>	<b>negl.</b>
Title V Major Source Thresholds	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA	NA
Nonattainment NSR Major Source Thresholds	NA	NA	100	NA	NA	NA	NA	NA	NA	NA
negl. = negligible ; NA = not applicable										
* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM <sub>10</sub> ), not particulate matter (PM), is considered as a "regulated air pollutant".										
** The PTE for Paved Roads is based after the use of controls since the source is required to comply with their Fugitive Dust Control Plan pursuant to 326 IAC 6.8-10.										

**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 unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

New Source Performance Standards (NSPS)

- (b) The requirements of the New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII (326 IAC 12), are not included for the Portable Screen PS-1, since the unit meets the definition of a nonroad engine, as defined in 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition) and

is therefore not considered a stationary internal combustion engine as defined in 40 CFR 60.4219.

- (c) The requirements of the New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ (326 IAC 12), are not included for the Portable Screen PS-1, since the unit uses compression ignition and meets the definition of a nonroad engine, as defined in 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition) and is therefore not considered a stationary internal combustion engine as defined in 40 CFR 60.4248
- (d) The requirements of the New Source Performance Standard for Metallic Mineral Processing Plants, 40 CFR 60, Subpart LL (326 IAC 12), are not included in this permit renewal, since this operation is not considered a metallic mineral processing plant as defined by 40 CFR 60.381. This operation will not produce metallic mineral concentrates from ore obtained from a mine.
- (e) The requirements of the New Source Performance Standard for Nonmetallic Mineral Processing Plants, 40 CFR 60, Subpart OOO (326 IAC 12), are not included in this permit renewal, because slag is not considered a nonmetallic mineral as defined by 40 CFR 60.671.
- (f) 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)

- (g) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580, Subpart ZZZZ (326 IAC 20-84), are not included for this permit renewal, since Portable Screen PS-1 meets the definition of a nonroad engine, as defined in 40 CFR 1068.30 and is therefore not considered a stationary reciprocating internal combustion engine as defined in 40 CFR 63.6675.
- (h) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this permit renewal.

<b>State Rule Applicability - Entire Source</b>
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- (a) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))  
This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of all attainment regulated pollutants are less than 250 tons per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (b) 326 IAC 2-3 (Emission Offset)  
This existing source is not a major stationary source, under Emission Offset (326 IAC 2-3) because the potential to emit all nonattainment regulated pollutants is less than 100 tons per year. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))  
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.

- (d) 326 IAC 2-6 (Emission Reporting)  
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is located in Lake County, it has actual emissions of NOx and VOC of less than twenty-five (25) tons per year, and it does not emit lead into the ambient air at levels equal to or greater than five (5) tons per year. Therefore, 326 IAC 2-6 does not apply.
- (e) Particulate Emission Limitation 326 IAC 2-6.1-6(g)(4)(B)  
Pursuant to Minor Permit Revision No. 089-30410-00543 and in order to comply with 326 IAC 2-6.1-6(g)(4)(B), the operating hours for Portable Screen PS-1 shall not exceed 6,325 hours per twelve (12) consecutive month period with compliance determined at the end of each month.
- Compliance with this limit will limit potential particulate emissions from Portable Screen PS-1 to less than twenty-five (25) tons per twelve (12) consecutive month period and shall render the requirements of 326 IAC 2-6.1-6(i)(1)(E)(i)(Significant Permit Revisions) not applicable.
- (f) 326 IAC 5-1 (Opacity Limitations)  
This source is subject to the opacity limitations specified in 326 IAC 5-1-2(2)(B),(C) 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:
- (1) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (g) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)  
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
- (h) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)  
326 IAC 6-5 applies to sources of fugitive particulate emissions located in nonattainment areas for particulate matter, except for sources located in Lake County. This source is located in Lake County. Therefore, the requirements of 326 IAC 6-5 are not applicable to this source.
- (i) 326 IAC 6.8-8 (Lake County: Continuous Compliance Plan)  
The source is subject to the requirements of 326 IAC 6.8-8 (Lake County: Continuous Compliance Plan) because it has uncontrolled total suspended particulate (TSP) emissions that may exceed one hundred (100) tons per year based on eight thousand seven hundred sixty (8,760) hours of operation and AP-42 emission factors.
- (j) 326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter)  
The source is subject to the requirements of 326 IAC 6.8-10 because the Jaw Crusher JC-1, Cone Crusher CC-1, 3-Deck Screen TS-1, and Conveyor System C-1 have potential fugitive particulate emissions greater than 5 tons per year.

Pursuant to 326 IAC 6.8-10-3, the particulate matter emissions from source wide activities shall meet the following requirements:

Pursuant to 326 IAC 6.8-10-3, the particulate matter emissions from source wide activities shall meet the following requirements:

- (1) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (2) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (3) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
- (4) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (5) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (6) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (7) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (8) Material processing facilities shall include the following:
  - (A) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
  - (B) The  $PM_{10}$  emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
  - (C) The  $PM_{10}$  stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
  - (D) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
  - (E) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (9) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (10) Material transfer limits shall be as follows:
  - (A) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).

- (B) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
- (C) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:
  - (i) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a six (6) minute average.
  - (ii) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in 326 IAC 6.8-10-3(9).
- (11) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, which is included as Attachment A to the permit.

- (k) 326 IAC 6.8-11 (Lake County: Particulate Contingency Measures)  
This source is subject to the requirements of 326 IAC 6.8-11, because the source has fugitive emission sources with the potential PM<sub>10</sub> emissions greater than or equal to ten (10) tons per year.
- (l) 326 IAC 12 (New Source Performance Standards)  
See Federal Rule Applicability Section of this TSD.
- (m) 326 IAC 20 (Hazardous Air Pollutants)  
See Federal Rule Applicability Section of this TSD.

#### Crushing and Screening Operations

- (n) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)  
Pursuant to 326 IAC 6-3-2(c)(3), the requirements of 326 IAC 6-3 shall not apply if a particulate matter limitation that is as stringent as or more stringent than the particulate matter limitation established in this rule is established in 326 IAC 6.8, concerning particulate matter emissions. Each of the units comprising the crushing and screening operations is subject to the requirements of 326 IAC 6.8-1-2. Therefore the requirements of 326 IAC 6-3-2 are not applicable.
- (o) 326 IAC 6.8-1 (Particulate Matter Limitations for Lake County)  
Pursuant to 326 IAC 6.8-1-2, particulate matter emissions from the crushing and screening operations shall not exceed the limitations contained in the table below:

Emission Unit	Emission Limit (g/dscm)	Equivalent Emission Limit (gr/dscf)
Truck Unloading L-1	0.07	0.03
Jaw Crusher JC-1	0.07	0.03
Cone Crusher CC-1	0.07	0.03
3-Deck Screen TS-1	0.07	0.03
Conveyor System C-1	0.07	0.03
Portable Screen PS-1	0.07	0.03

Portable Diesel-Fired Screen (PS-1) Combustion

- (p) 326 IAC 6-2 (Particulate Emissions Limitations for Sources of Indirect Heating)  
The diesel-fired engine associated with the portable screen (PS-1) is not subject to the requirements of 326 IAC 6-2, because it is not an indirect heating unit.
- (q) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)  
The diesel-fired engine associated with the portable screen (PS-1) is exempt from the requirements of 326 IAC 6-3, because, pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight. In addition, pursuant to 326 IAC 6-3-1(b)(14), the diesel-fired engine associated with the portable screen (PS-1) is also exempt from the requirements of 326 IAC 6-3, because it has potential particulate emissions of less than five hundred fifty one thousandths (0.551) pound per hour.
- (r) 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)  
The diesel-fired engine associated with the portable screen (PS-1) is not subject to the requirements of 326 IAC 7-1.1-2 because it has the potential to emit SO<sub>2</sub> of less than twenty-five (25) tons per year and ten (10) pounds per hour.
- (s) 326 IAC 8-1-6 (New Facilities; General Reduction Requirements)  
The diesel-fired engine associated with the portable screen (PS-1) is not subject to the requirements of 326 IAC 8-1-6 because it has the potential to emit VOC of less than twenty-five (25) tons per year.

**Recommendation**

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

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

An application for the purposes of this review was received on November 20, 2013.

**Conclusion**

The operation of this stationary steel and slag processing and iron recovery plant shall be subject to the conditions of the attached MSOP Renewal No. M089-33900-00543.

<b>IDEM Contact</b>
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- (a) Questions regarding this proposed permit can be directed to Curtis Taylor at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCM 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5176 or toll free at 1-800-451-6027 extension 4-5176.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)

**Appendix A: Emissions Calculations  
Emissions Summary After Revision**

**Company Name: Fritz Enterprises, Inc.  
Source Address: 120 North Clark Road, Gary, IN 46406  
Renewal Permit No.: M089-33900-00543  
Reviewer: Curtis Taylor**

<b>Uncontrolled / Unlimited Potential Emissions (Tons/Year)</b>										
<b>Emissions Units</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>GHGs as CO2e</b>	<b>Worst Single HAP</b>	<b>Total HAPs</b>
Truck Unloading L-1	0.02	0.02	0.02	-	-	-	-	-	-	-
Jaw Crusher JC-1	5.68	2.52	2.52	-	-	-	-	-	-	-
Cone Crusher CC-1	5.68	2.52	2.52	-	-	-	-	-	-	-
3-Deck Screen TS-1	26.28	9.15	9.15	-	-	-	-	-	-	-
Portable Screen PS-1	32.85	11.43	11.43	-	-	-	-	-	-	-
Conveyor System C-1	34.69	12.72	12.72	-	-	-	-	-	-	-
Product Piles P-1	4.84	4.84	4.84	-	-	-	-	-	-	-
2-Deck Screen S-1	32.85	11.43	11.43	-	-	-	-	-	-	-
Feeder F-1	3.94	1.45	1.45	-	-	-	-	-	-	-
Paved Roads	1.76	0.35	0.09	-	-	-	-	-	-	-
Diesel Combustion	1.62	1.62	1.62	1.51	22.81	1.85	4.92	849	negl.	0.02
<b>Total</b>	<b>150.19</b>	<b>58.04</b>	<b>57.78</b>	<b>1.51</b>	<b>22.81</b>	<b>1.85</b>	<b>4.92</b>	<b>849</b>	<b>0.00</b>	<b>0.02</b>

<b>Controlled / Unlimited Potential Emissions (Tons/Year)</b>										
<b>Emissions Units</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>GHGs as CO2e</b>	<b>Worst Single HAP</b>	<b>Total HAPs</b>
Truck Unloading L-1	0.02	0.02	0.02	-	-	-	-	-	-	-
Jaw Crusher JC-1	1.26	0.57	0.11	-	-	-	-	-	-	-
Cone Crusher CC-1	1.26	0.57	0.11	-	-	-	-	-	-	-
3-Deck Screen TS-1	2.31	0.78	0.05	-	-	-	-	-	-	-
Portable Screen PS-1	2.89	0.97	0.07	-	-	-	-	-	-	-
Conveyor System C-1	1.62	0.53	0.15	-	-	-	-	-	-	-
Product Piles P-1	4.84	4.84	4.84	-	-	-	-	-	-	-
2-Deck Screen S-1	2.89	0.97	0.07	-	-	-	-	-	-	-
Feeder F-1	0.18	0.06	0.02	-	-	-	-	-	-	-
Paved Roads	0.88	0.18	0.04	-	-	-	-	-	-	-
Diesel Combustion	1.62	1.62	1.62	1.51	22.81	1.85	4.92	849	negl.	0.02
<b>Total</b>	<b>19.77</b>	<b>11.10</b>	<b>7.08</b>	<b>1.51</b>	<b>22.81</b>	<b>1.85</b>	<b>4.92</b>	<b>849</b>	<b>0.00</b>	<b>0.02</b>

<b>Uncontrolled / Limited Potential Emissions (Tons/Year)</b>										
<b>Emissions Units</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>GHGs as CO2e</b>	<b>Worst Single HAP</b>	<b>Total HAPs</b>
Truck Unloading L-1	0.02	0.02	0.02	-	-	-	-	-	-	-
Jaw Crusher JC-1	5.68	2.52	2.52	-	-	-	-	-	-	-
Cone Crusher CC-1	5.68	2.52	2.52	-	-	-	-	-	-	-
3-Deck Screen TS-1	26.28	9.15	9.15	-	-	-	-	-	-	-
Portable Screen PS-1	23.72	8.25	8.25	-	-	-	-	-	-	-
Conveyor System C-1	34.69	12.72	11.43	-	-	-	-	-	-	-
Product Piles P-1	4.84	4.84	4.84	-	-	-	-	-	-	-
2-Deck Screen S-1	32.85	11.43	11.43	-	-	-	-	-	-	-
Feeder F-1	3.94	1.45	1.45	-	-	-	-	-	-	-
Paved Roads	1.76	0.35	0.09	-	-	-	-	-	-	-
Diesel Combustion	1.17	1.17	1.17	1.09	16.47	1.34	3.55	613	negl.	0.01
<b>Total</b>	<b>140.61</b>	<b>54.42</b>	<b>52.86</b>	<b>1.09</b>	<b>16.47</b>	<b>1.34</b>	<b>3.55</b>	<b>613</b>	<b>0.00</b>	<b>0.01</b>

<b>Controlled / Limited Potential Emissions (Tons/Year)</b>										
<b>Emissions Units</b>	<b>PM</b>	<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>GHGs as CO2e</b>	<b>Worst Single HAP</b>	<b>Total HAPs</b>
Truck Unloading L-1	0.02	0.02	0.02	-	-	-	-	-	-	-
Jaw Crusher JC-1	1.26	0.57	0.11	-	-	-	-	-	-	-
Cone Crusher CC-1	1.26	0.57	0.11	-	-	-	-	-	-	-
3-Deck Screen TS-1	2.31	0.78	0.05	-	-	-	-	-	-	-
Portable Screen PS-1	2.09	0.70	0.05	-	-	-	-	-	-	-
Conveyor System C-1	1.62	0.53	0.15	-	-	-	-	-	-	-
Product Piles P-1	4.84	4.84	4.84	-	-	-	-	-	-	-
2-Deck Screen S-1	2.89	0.97	0.07	-	-	-	-	-	-	-
Feeder F-1	0.18	0.06	0.02	-	-	-	-	-	-	-
Paved Roads	0.88	0.18	0.04	-	-	-	-	-	-	-
Diesel Combustion	1.17	1.17	1.17	1.09	16.47	1.34	3.55	613	negl.	0.01
<b>Total</b>	<b>18.52</b>	<b>10.38</b>	<b>6.61</b>	<b>1.09</b>	<b>16.47</b>	<b>1.34</b>	<b>3.55</b>	<b>613</b>	<b>0.00</b>	<b>0.01</b>

**Appendix A: Emissions Calculations  
PM, PM10 and PM2.5 Potential Emissions**

**Company Name: Fritz Enterprises, Inc.  
Source Address: 120 North Clark Road, Gary, IN 46406  
Renewal Permit No.: M089-33900-00543  
Reviewer: Curtis Taylor**

**Uncontrolled Potential Emissions**

Emissions Units	Unlimited Throughput		Limited Throughput		EMISSION FACTORS, lb/ton (AP-42, Table 11.19.2-2)			UNLIMITED ANNUAL EMISSIONS, TPY			LIMITED ANNUAL EMISSIONS, TPY		
	tons/hr	TPY	tons/hr	TPY	PM**	PM-10	PM-2.5**	PM	PM-10	PM-2.5	PM	PM-10	PM-2.5
Truck Unloading L-1	240	2,102,400	240	2,102,400	0.000016	0.000016	0.000016	0.02	0.02	0.02	0.02	0.02	0.02
Jaw Crusher JC-1	240	2,102,400	240	2,102,400	0.0054	0.0024	0.0024	5.68	2.52	2.52	5.68	2.52	2.52
Cone Crusher CC-1	240	2,102,400	240	2,102,400	0.0054	0.0024	0.0024	5.68	2.52	2.52	5.68	2.52	2.52
3-Deck Screen TS-1	240	2,102,400	240	2,102,400	0.025	0.0087	0.0087	26.28	9.15	9.15	26.28	9.15	9.15
Portable Screen PS-1	300	2,628,000	300	1,897,500	0.025	0.0087	0.0087	32.85	11.43	11.43	23.72	8.25	8.25
2-Deck Screen S-1	300	2,628,000	300	2,628,000	0.025	0.0087	0.0087	32.85	11.43	11.43	32.85	11.43	11.43
Feed Conveyor F-1	300	2,628,000	300	2,628,000	0.003	0.0011	0.0011	3.94	1.45	1.45	3.94	1.45	1.45
Conveyor C-1	240	2,102,400	240	2,102,400	0.003	0.0011	0.0011	34.69	12.72	12.72	34.69	12.72	12.72
Product Pile P-1*	240	2,102,400	240	2,102,400	0.0046	0.0046	0.0046	4.84	4.84	4.84	4.84	4.84	4.84
<b>Total</b>								<b>146.82</b>	<b>56.07</b>	<b>56.07</b>	<b>137.69</b>	<b>52.89</b>	<b>52.89</b>

Note:

In order to render the requirements of 326 IAC 2-6.1-6(i)(1)(E)(i)(Significant Permit Revisions) not applicable to Minor Permit Revision No. 089-30410-00543, the Permittee has elected to limit the potential to emit PM for Portable Screen (PS-1) to less than 25 tons per year and to limit the annual hours of operation of the process to less than 6,325 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

**Controlled Potential Emissions**

Emissions Units	Unlimited Throughput		Limited Throughput		EMISSION FACTORS, lb/ton (AP-42, Table 11.19.2-2)			UNLIMITED ANNUAL EMISSIONS, TPY			LIMITED ANNUAL EMISSIONS, TPY			CONTROLS
	tons/hr	TPY	tons/hr	TPY	PM**	PM-10	PM-2.5**	PM	PM-10	PM-2.5	PM	PM-10	PM-2.5	
Truck Unloading L-1	240	2,102,400	240	2,102,400	0.000016	0.000016	0.000016	0.02	0.02	0.02	0.02	0.02	0.02	Wet Suppression
Jaw Crusher JC-1	240	2,102,400	240	2,102,400	0.0012	0.00054	0.0001	1.26	0.57	0.11	1.26	0.57	0.11	Wet Suppression
Cone Crusher CC-1	240	2,102,400	240	2,102,400	0.0012	0.00054	0.0001	1.26	0.57	0.11	1.26	0.57	0.11	Wet Suppression
3-Deck Screen TS-1	240	2,102,400	240	2,102,400	0.0022	0.00074	0.00005	2.31	0.78	0.05	2.31	0.78	0.05	Wet Suppression
Portable Screen PS-1	300	2,628,000	300	1,897,500	0.0022	0.00074	0.00005	2.89	0.97	0.07	2.09	0.70	0.05	Wet Suppression
2-Deck Screen S-1	300	2,628,000	300	2,628,000	0.0022	0.00074	0.00005	2.89	0.97	0.07	2.89	0.97	0.07	Wet Suppression
Feed Conveyor F-1	300	2,628,000	300	2,628,000	0.00014	0.000046	0.000013	0.18	0.06	0.02	0.18	0.06	0.02	Wet Suppression
Conveyor C-1	240	2,102,400	240	2,102,400	0.00014	0.000046	0.000013	1.62	0.53	0.15	1.62	0.53	0.15	Wet Suppression
Product Piles P-1*	240	2,102,400	240	2,102,400	0.0046	0.0046	0.0046	4.84	4.84	4.84	4.84	4.84	4.84	Wet Suppression
<b>Total</b>								<b>17.27</b>	<b>9.30</b>	<b>5.41</b>	<b>16.47</b>	<b>9.03</b>	<b>5.40</b>	

Note:

In order to render the requirements of 326 IAC 2-6.1-6(i)(1)(E)(i)(Significant Permit Revisions) not applicable to this Minor Permit Revision No. 089-30410-00543, the Permittee has elected to limit the potential to emit PM for Portable Screen (PS-1) to less than 25 tons per year and to limit the annual hours of operation of the process to less than 6,325 hours per twelve (12) consecutive month period with compliance determined at the end of each month.

\* Dust is generated as material is added to the storage pile. Assumes a mean wind speed (w) of 15 mph and an average moisture content (m) of 2%. Using the active storage pile formula from the Air Pollution Control Manual (2nd Edition, page 126), the emission factor calculation for PM-10 is  $R \text{ (lb/ton)} = 0.0011 (w/5)^{1.3} * (m/2)^{-1.4}$ .

\*\* Where the emission factor for PM or PM2.5 is not available, the emission factor for the corresponding PM10 is used.

**Appendix A: Emission Calculations**  
**Reciprocating Internal Combustion Engines - Diesel Fuel**  
**PS-1**

**Company Name: Fritz Enterprises, Inc.**  
**Source Address: 120 North Clark Road, Gary, IN 46406**  
**Renewal Permit No.: M089-33900-00543**  
**Reviewer: Curtis Taylor**

**Emissions calculated based on output rating (hp)**

Output Horsepower Rating (hp)	168.0
Maximum Hours Operated per Year	8760
Potential Throughput (hp-hr/yr)	1,471,680

Output Horsepower Rating (hp)	168.0
Limited Hours Operated per Year	6325
Potential Throughput (hp-hr/yr)	1,062,600

	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Unlimited Potential Emission in tons/yr	1.62	1.62	1.62	1.51	22.81	1.85	4.92
<b>Limited Potential Emissions in tons/yr</b>	<b>1.17</b>	<b>1.17</b>	<b>1.17</b>	<b>1.09</b>	<b>16.47</b>	<b>1.34</b>	<b>3.55</b>

\*PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.

**Hazardous Air Pollutants (HAPs)**

	Pollutant							Total PAH HAPs***
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	
Emission Factor in lb/hp-hr****	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Unlimited Potential Emission in tons/yr	4.81E-03	2.11E-03	1.47E-03	2.01E-04	6.08E-03	3.95E-03	4.76E-04	8.65E-04
<b>Limited Potential Emissions in tons/yr</b>	<b>3.47E-03</b>	<b>1.52E-03</b>	<b>1.06E-03</b>	<b>1.45E-04</b>	<b>4.39E-03</b>	<b>2.85E-03</b>	<b>3.44E-04</b>	<b>6.25E-04</b>

\*\*\*PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

\*\*\*\*Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Unlimited Potential Emission of Total HAPs (tons/yr)	0.02
<b>Limited Potential Emission of Total HAPs (tons/yr)</b>	<b>0.01</b>

**Green House Gas Emissions (GHG)**

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/hp-hr	1.15E+00	4.63E-05	9.26E-06
Unlimited Potential Emission in tons/yr	8.46E+02	3.41E-02	6.81E-03
<b>Limited Potential Emission in tons/yr</b>	<b>6.11E+02</b>	<b>2.46E-02</b>	<b>4.92E-03</b>

<b>Summed Potential Emissions in tons/yr</b>	<b>846</b>
<b>Unlimited CO2e Total in tons/yr</b>	<b>849</b>
<b>Limited CO2e Total in tons/yr</b>	<b>613</b>

CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.  
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

**Methodology**

Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] \* [Maximum Hours Operated per Year]

Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] \* [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).

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

**Company Name:** Fritz Enterprises, Inc.  
**Source Address:** 120 North Clark Road, Gary, IN 46406  
**Renewal Permit No.:** M089-33900-00543  
**Reviewer:** Curtis Taylor

**Paved Roads at Industrial Site**

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

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	20.0	1.0	20.0	25.0	500.0	600	0.114	2.3	829.5
Vehicle (leaving plant) (one-way trip)	20.0	1.0	20.0	25.0	500.0	600	0.114	2.3	829.5
<b>Total</b>			<b>40.0</b>		<b>1000.0</b>			<b>4.5</b>	<b>1659.1</b>

Average Vehicle Weight Per Trip = 25.0 tons/trip  
Average Miles Per Trip = 0.11 miles/trip

Unmitigated Emission Factor, Ef = [k \* (sL)<sup>0.91</sup> \* (W)<sup>1.02</sup>] (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 =	25.0	25.0	25.0	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 = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)  
N = 365 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	2.319	0.464	0.1138	lb/mile
Mitigated Emission Factor, Eext =	2.120	0.424	0.1041	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

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)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Vehicle (entering plant) (one-way trip)	0.96	0.19	0.05	0.88	0.18	0.04	0.44	0.09	0.02
Vehicle (leaving plant) (one-way trip)	0.96	0.19	0.05	0.88	0.18	0.04	0.44	0.09	0.02
	<b>1.92</b>	<b>0.38</b>	<b>0.09</b>	<b>1.76</b>	<b>0.35</b>	<b>0.09</b>	<b>0.88</b>	<b>0.18</b>	<b>0.04</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)  
Controlled PTE (tons/yr) = [Mitigated PTE (tons/yr)] \* [1 - Dust Control Efficiency]

**Abbreviations**

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



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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**Michael R. Pence**  
Governor

**Thomas W. Easterly**  
Commissioner

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

TO: David W Splan  
Fritz Enterprises, Inc.  
1650 W Jefferson  
Trenton, MI 48183

DATE: March 4, 2014

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

SUBJECT: Final Decision  
Renewal of a Minor Source Operating Permit (MSOP)  
089-33900-00543

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
Joseph Duckett, PE, SNC Lavalin America Inc.  
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 6/13/2013



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**Michael R. Pence**  
Governor

**Thomas W. Easterly**  
Commissioner

March 4, 2014

TO: Gary Public Library

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

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

**Applicant Name: Fritz Enterprises, Inc.**  
**Permit Number: 089-33900-00543**

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

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

Enclosures  
Final Library.dot 6/13/2013

# Mail Code 61-53

IDEM Staff	VHAUN 3/4/2014 Fritz Enterprises, Inc. 089-33900-00543 FINAL		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		David W Splan Fritz Enterprises, Inc. 1650 W Jefferson Trenton MI 48183 (Source CAATS)	Confirmed Delivery									
2		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 (Local Official)										
3		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
4		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
5		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
6		Mark Coleman 107 Diana Road Portage IN 46368 (Affected Party)										
7		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
8		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
9		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										
10		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										
11		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)										
12		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										
13		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
14		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
15		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See <b>Domestic Mail Manual R900, S913, and S921</b> for limitations of coverage on inured and COD mail. See <b>International Mail Manual</b> for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
<b>14</b>			

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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		Peter Julovich Gary Dept. of Environmental Affairs 839 Broadway N206 Gary IN 46402 (Local Official)										
2		Mr. Larry Davis 268 South, 600 West Hebron IN 46341 (Affected Party)										
3		Gary Public Library 220 West 5th Avenue Gary IN 46402 (Library)										
4		Mr. Joseph Duckett, PE SNC Lavalin America Inc 6585 Penn Avenue Pittsburgh PA 15206 (Consultant)										
5		Ryan Dave 939 Cornwallis Munster IN 46321 (Affected Party)										
6		Matt Mikus 1710 Vale Park Rd Apt 302 Valparaiso IN 46383 (Affected Party)										
7												
8												
9												
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13												
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