



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: October 17, 2006
RE: J.L. Smith Services DBA American Crushing & Recycling / 089-23031-00509
FROM: Nisha Sizemore
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 13-17-3-4 and 326 IAC 2, this approval is effective immediately, unless a petition for stay of effectiveness is filed and granted, 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 4-21.5-3-7 and IC 13-15-7-3 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 Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, 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-MOD.dot 03/23/06



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Mr. Joseph L. Smith
J.L. Smith Services DBA American Crushing & Recycling
2484 Lindair Drive
Springfield, Indiana 45502

October 17, 2006

Re: Minor Source Modification No:
089-23031-00509

Dear Mr. Smith:

J.L. Smith Services DBA American Crushing & Recycling applied for a Minor Source Modification on May 1, 2006 for the construction of a portable crushing & screening plant to be collocated with U.S. Steel Gary Works. U.S. Steel Gary Works submitted an application for a Part 70 Permit on December 13, 1996, and was issued on August 18, 2006. Pursuant to 326 IAC 2-7-10.5, the following emission units are approved for construction at the source:

- (a) One (1) crusher and screen (identified as CR-1), to be installed in 2006, with a maximum throughput capacity of 125 tons of steel mill slag per hour.
- (b) One (1) conveyor, consisting of two transfer points (identified as T1 and T2), to be installed in 2006, with a maximum conveying capacity of 125 tons of steel mill slag per hour.
- (c) Material handling and storage piles.
- (d) One (1) diesel engine, to be installed in 2006, with a maximum heat input capacity of 1.24 MMBtu per hour.

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless

modified in a manner consistent with procedures established pursuant to 326 IAC 2.

6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

The source may begin construction when the minor source modification has been issued. Operating conditions shall be incorporated into the pending Part 70 operating permit pursuant to 326 IAC 2-7-10.5(l)(3). Operation is not approved until the Part 70 permit has been issued.

Pursuant to Contract No. A305-5-65, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Sanobar Durrani, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7810 to speak directly to Ms. Durrani. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027 and ask for Duane Van Laningham or extension 3-6878, or dial (317) 233-0178.

Sincerely,

Original signed by

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

Attachments

ERG/SD

cc: File – Lake County
U.S. EPA, Region V
Lake County Health Department
Northwest Regional Office
Air Compliance Section Inspector – Rick Massoels
Compliance Data Section
Administrative and Development
Technical Support and Modeling - Michele Boner



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PART 70 MINOR SOURCE MODIFICATION OFFICE OF AIR QUALITY

**J. L. Smith Services
DBA American Crushing & Recycling
an on-site contractor of U.S. Steel-Gary Works
One North Broadway
Gary, Indiana 46402**

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

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

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.

This approval is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Minor Source Modification: 089-23031-00509	
Original signed by Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: October 17, 2006

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SECTION A SOURCE SUMMARY

This approval is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the emission units contained in conditions A.1, A.3 and A.4 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 approval pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a portable crushing and screening plant.

Responsible Official:	President/Owner
Source Address:	One North Broadway, Gary, Indiana 46402
Mailing Address:	2484 Lindair Drive, Springfield, Ohio 45502
General Source Phone Number:	(937) 360-5807
SIC Code:	1429
County Location:	Lake
Source Location Status:	Nonattainment for Ozone under 8-hour standard Nonattainment for PM 2.5 Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD and Emission Offset Rules Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This steel mill consists of a source with on-site contractors:

- (a) U.S. Steel Gary Works, the primary operation, is located at One North Broadway, Gary Indiana, and
- (b) J.L. Smith Services DBA American Crushing & Recycling, the supporting operation, is located at One North Broadway, Gary, Indiana.

IDEM has determined that U.S. Steel Gary Works and J.L. Smith Services DBA American Crushing & Recycling are under the common control of U.S. Steel Gary Works, and therefore, will be considered as one source, as defined by 326 IAC 2-7-1(22), based on this contractual control.

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This portable source is approved to construct and operate the following emission units and pollution control devices:

- (a) One (1) crusher and screen (identified as CR-1) installed in 2006, with a maximum throughput capacity of 125 tons of steel mill slag per hour.
- (b) One (1) conveyor, consisting of two transfer points (identified as T1 and T2) installed in 2006, with a maximum conveying capacity of 125 tons of steel mill slag per hour.
- (c) Material handling and storage piles.

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This portable source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) One (1) diesel engine, installed in 2006, with a maximum heat input capacity of 1.24 MMBtu per hour.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this approval shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

B.3 Revocation of Permits [326 IAC 2-1.1-9(5)]

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

B.4 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this approval or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.5 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this approval, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) when operation begins, 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.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ,. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.6 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the

affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or

Telephone Number: 317-233-0178 (ask for Compliance Section)

Facsimile Number: 317-233-6865

Northwest Regional Office

Telephone Number: 219-757-0265 or Toll Free 888-209-8892

Facsimile Number: 219-757-0267

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

Indiana Department of Environmental Management

Compliance Branch, Office of Air Quality

100 North Senate Avenue

Indianapolis, Indiana 46204-2251

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

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

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

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may

require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.7 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 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
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.8 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]

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

SECTION C

GENERAL OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Opacity [326 IAC 5-1]

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

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

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

The 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.3 Fugitive Dust Emissions [326 IAC 6.8-10-3] [326 IAC 6.8-11]

- (a) Pursuant to 326 IAC 6.8-10.3 (Lake County Fugitive Particulate Matter Control Requirements), 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 average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
 - (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) 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.
 - (9) The PM10 emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.

- (10) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
 - (11) Any facility or operation not specified in 326 IAC 6-1-11.1(d) shall meet a twenty percent (20%), three (3) minute average opacity standard.
 - (12) The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan submitted on July 19, 2006 and included in Appendix B of this permit.
- (b) The source is subject to 326 IAC 6.8-11 (Lake County Particulate Matter Contingency Measures) because it is subject to the requirements of 326 IAC 6.8-10. Pursuant to this rule, the source shall comply with 326 IAC 6.8-11-4 and 326 IAC 6.8-11-6.

Compliance Requirements [326 IAC 2-1.1-11]

C.4 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.5 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

If required by Section D, all monitoring and record keeping requirements shall be implemented when operation begins. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

C.6 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this approval shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other methods as specified in this approval.

C.7 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this approval exceed the level specified in any condition of this approval, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.8 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

- (a) Records of all required monitoring data, reports and support information required by this approval 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 approval, all record keeping requirements not already legally required shall be implemented within ninety (90) days of approval issuance.
- (c) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-3(ll) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-3(mm)), the Permittee shall comply with following:
 - (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll) 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(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
 - (2) 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
 - (3) 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.9 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]
[326 IAC 2-3]

- (a) The reports required by conditions in Section D of this approval shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

- (b) Unless otherwise specified in this approval, any notice, report, or other submission required by this approval 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) Unless otherwise specified in this approval, all reports required in Section D of this approval shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) The first report shall cover the period commencing on the date of issuance of this approval and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (e) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C- General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II) 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(xx) and/or 326 IAC 2-3-1(qq), 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).
- (f) The report for project at an existing emissions unit shall be submitted within 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 (c)(2) and (3) 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 deems fit to include in this report,

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

- (g) 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.

Portable Source Requirement

C.10 Relocation of Portable Sources [326 IAC 2-14-4]

- (a) This is an approval for operation in Indiana. This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2, and Emission

Offset requirements in 326 IAC 2-3. Prior to locating in any other severe nonattainment area, the Permittee must submit a request and obtain a permit revision.

- (b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
 - (1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
 - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8

The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) "Relocation Site Approval" letter shall be obtained prior to relocating.
- (d) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:
 - (1) Madison County - (Anderson Office of Air Management)
 - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
 - (3) City of Gary -(Gary Department of Environmental Affairs)
 - (4) City of Hammond - (Hammond Department of Environmental Management)
 - (5) Marion County - (Indianapolis Office of Environmental Services)
 - (6) Vigo County - (Vigo County Air Pollution Control)
- (e) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (a) One (1) crusher and screen (identified as CR-1) installed in 2006, with a maximum throughput capacity of 125 tons of steel mill slag per hour.
- (b) One (1) conveyor, consisting of two transfer points (identified as T1 and T2) installed in 2006, with a maximum conveying capacity of 125 tons of steel mill slag per hour.
- (c) Material handling and storage piles.

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Particulate Matter (PM) [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a)(Particulate Emission Limitations for Lake County), particulate matter (PM) emissions from the crushing and screening operations shall be limited to 0.03 grains per dry standard cubic foot of exhaust air.

D.1.2 Fugitive Dust Emission Limitations [326 IAC 6-4-2][326 IAC 6.8-10-3]

(a) Pursuant to 326 IAC 6-4-2:

- (1) The screening, and conveying, generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:

- (A) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$P = \frac{100(R - U)}{U}$$

Where

P = Percentage increase

R = Number of particles of fugitive dust measured at downward receptor site

U = Number of particles of fugitive dust measured at upwind or background site

- (B) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

$$PR = (1.5 \pm N) P$$

Where

N = Fraction of fugitive dust that is respirable dust;

PR = allowable percentage increase in dust concentration above background; and

P = no value greater than sixty-seven percent (67%).

- (C) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.

- (D) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in

subdivisions (1), (2) or (3) of this section. 326 IAC 6-4-2(4) is not federally enforceable.

- (2) Pursuant to 326 IAC 6-4-6(6) (Exceptions), fugitive dust from a source caused by adverse meteorological conditions will be considered an exception to this rule (326 IAC 6-4) and therefore not in violation.
- (b) Pursuant to 326 IAC 6.8-10-3 (Lake County Fugitive Particulate Matter Emissions Limitations), fugitive emissions from the screening, and conveying, generating fugitive dust shall comply with the emissions limitations in Section C - Fugitive Dust Emissions.

D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.4 Visible Emissions Notations

- (a) Visible emission notations of the crushing, screening, and conveying shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-19]

D.1.5 Record Keeping Requirements

- (a) To document compliance with Condition D.1.4, the Permittee shall maintain records of once per day visible emission notations for the crushing, screening, and conveying operations.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activity

- (a) One (1) diesel engine installed in 2006, with a maximum heat input capacity of 1.24 MMBtu per hour.

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Particulate Matter (PM) [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a)(Particulate Emission Limitations for Lake County), particulate matter (PM) emissions from the one (1) diesel engine shall be limited to 0.03 grain per dry standard cubic foot of exhaust air.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

PART 70 SOURCE MODIFICATION CERTIFICATION

Source Name: J. L. Smith Services DBA American Crushing & Recycling
Source Address: One North Broadway, Gary, Indiana 46402
Mailing Address: 2484 Lindair Drive, Springfield, Ohio 45502
Permit No.: 089-23031-00509

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233- 0178
Fax: 317-233-6865**

**PART 70 SOURCE MODIFICATION
EMERGENCY OCCURRENCE REPORT**

Source Name: J. L. Smith Services DBA American Crushing & Recycling
Source Address: One North Broadway, Gary, Indiana 46402
Mailing Address: 2484 Lindair Drive, Springfield, Ohio 45502
Permit No.: 089-23031-00509

This form consists of 2 pages

Page 1 of 2

<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">C The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178 ask for Compliance Section); andC The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

**PART 70 SOURCE MODIFICATION
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: J. L. Smith Services DBA American Crushing & Recycling
 Source Address: One North Broadway, Gary, Indiana 46402
 Mailing Address: 2484 Lindair Drive, Springfield, Ohio 45502
 Permit No.: 089-23031-00509

Months: _____ **to** _____ **Year:** _____

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

**Technical Support Document (TSD)
for a Minor Source Modification and Part 70 Operating Permit**

Source Description and Location

Source Name:	J.L. Smith Services DBA American Crushing & Recycling, an on-site contractor of U.S. Steel-Gary Works
Source Location:	One North Broadway, Gary, Indiana 46402
County:	Lake
SIC Code:	1429
Minor Source Modification No.:	MSM089-23031-00509
Part 70 Permit No.:	T089-23525-00509
Permit Reviewer:	ERG/SD

History

IDEM, OAQ has reviewed a permit application from J.L. Smith Services DBA American Crushing & Recycling, submitted on May 1, 2006, relating to the construction and operation of a portable crushing and screening plant consisting of the following emission units:

- (a) One (1) crusher and screen (identified as CR-1) to be installed in 2006, with a maximum throughput capacity of 125 tons of steel mill slag per hour.
- (b) One (1) conveyor, consisting of two transfer points (identified as T1 and T2) to be installed in 2006, with a maximum conveying capacity of 125 tons of steel mill slag per hour.
- (c) Material handling and storage piles.
- (d) One (1) diesel engine, to be installed in 2006, with a maximum heat input capacity of 1.24 MMBtu per hour.

Note: This portable crushing and screening plant will be collocated with U.S. Steel Gary Works as described in the source definition section below. U.S. Steel Gary Works submitted an application for a Part 70 permit on December 13, 1996. Since that time, U.S. Steel has applied for and received several source modification approvals. The scope of this project will not affect the capacity or throughput of any other operations at U.S. Steel

In lieu of a Significant Permit Modification and for administrative purposes a separate Part 70 Operating Permit shall be issued to J.L. Smith Services DBA American Crushing & Recycling, an on-site contractor of U.S. Steel-Gary Works.

Source Definition

This steel mill consists of a source with on-site contractors:

- (a) U.S. Steel Gary Works, the primary operation, is located at One North Broadway, Gary Indiana, and
- (b) J.L. Smith Services DBA American Crushing & Recycling, the supporting operation, is located at One North Broadway, Gary, Indiana.

IDEM has determined that U.S. Steel Gary Works and J.L. Smith Services DBA American Crushing & Recycling are under the common control of U.S. Steel Gary Works, and therefore, will be considered as one source, as defined by 326 IAC 2-7-1(22), based on this contractual control.

- (a) Initial Location: This is a portable source and its initial location is One North Broadway, Gary, Indiana 46402.
- (b) PSD and Emission Offset Requirements: The emissions from this portable source were reviewed under the requirements of Prevention of Significant Deterioration (PSD) 326 IAC 2-2 and Emission Offset 326 IAC 2-3.
- (c) Fugitive Emissions: Since this type of operation is in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 2-3, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD and Emission Offset applicability.

Existing Approvals

There have been no previous approvals issued to J.L. Smith Services DBA American Crushing & Recycling.

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM10	Attainment
PM2.5	Nonattainment
SO ₂	Attainment
NO _x	Attainment
8-hour Ozone	Nonattainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standard. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (b) U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Lake County as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM10 emissions as a surrogate for PM2.5 emissions pursuant to the requirements of Emission Offset, 326 IAC 2-3.
- (c) Lake County has been classified as attainment or unclassifiable in Indiana for SO₂, CO, NO₂, and Lead (Pb). Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) On August 7, 2006, a temporary emergency rule took effect redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana. The Indiana Air Pollution Control Board has approved a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 will take effect prior to the expiration of the emergency rule.

Source Status

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Pollutant	Emissions (tons/year)
PM	>100
PM10	>100
SO ₂	>100
VOC	>100
CO	>100
NO _x	>100

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 100 tons per year or more, and it is in one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) This existing source is a major stationary source under Emission Offset (326 IAC 2-3) because a nonattainment regulated pollutant is emitted at a rate of 100 tons per year or more.

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

HAPs	Potential To Emit (tons/year)
Single HAP	>10
Combination of HAPs	>25

This existing source is a major source of HAPs, as defined in 40 CFR 63.41, because HAPs emissions are greater than ten (10) tons per year for any single HAP and greater than twenty-five (25) tons per year of a combination of HAPs.

No previous emission data has been received from the source.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a application, submitted by J.L. Smith Services DBA American Crushing & Recycling on May 1, 2006, relating to the construction and operation of a portable crushing and screening plant. This source will function as an on-site contractor of U.S. Steel-Gary Works. The following is a list of the proposed emissions units and pollution control devices:

- (a) One (1) crusher and screen (identified as CR-1), to be installed in 2006, with a maximum throughput capacity of 125 tons of steel mill slag per hour.
- (b) One (1) conveyor, consisting of two transfer points (identified as T1 and T2), to be installed in 2006, with a maximum conveying capacity of 125 tons of steel mill slag per hour.
- (c) Material handling and storage piles.
- (d) One (1) diesel engine, to be installed in 2006, with a maximum heat input capacity of 1.24 MMBtu per hour.

Enforcement Issues

There are no pending enforcement actions.

Emission Calculations

See Appendix A of this document for detailed emission calculations (pages 1 through 4).

Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	22.9
PM10	11.3
SO ₂	1.56
VOC	1.96
CO	5.12
NO _x	23.8

There are no HAP emissions from the new emission units, except from one (1) diesel engine. The total potential to emit of HAPs from the diesel engine is equal to 2.93E-02 tons per year.

This source modification is subject to 326 IAC 2-7-10.5(d)(4)(a) because this modification results in a potential to emit of PM and PM10 less than 25 tons per year and equal to or greater than 5 tons per year subject to 326 IAC 2-7-10.5(d)(4)(b) because this modification results in a potential to emit of NO_x less than 25 tons per year and equal to or greater than 10 tons per year, and subject to 326 IAC 2-7-10.5(d)(9) because this modification results in an increase of NO_x emissions greater than 25 pounds per day.

In lieu of a Significant Permit Modification and for administrative purposes, a separate Part 70 Operating Permit shall be issued to J.L. Smith Services DBA American Crushing & Recycling, an on-site contractor of U.S. Steel-Gary Works.

Permit Level Determination – PSD or Emission Offset

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 source modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Emission Unit	Potential to Emit (tons/year)						
	PM	PM10	SO ₂	VOC	CO	NO _x	HAPs
Diesel Engine	1.67	1.67	1.56	1.96	5.12	23.8	2.93E-02
Truck Unloading	9.03E-03	9.03E-03	0.0	0.0	0.0	0.0	0.0
Conveyor Transfer Point	1.64	0.60	0.0	0.0	0.0	0.0	0.0
Crushing Operations	2.96	1.31	0.0	0.0	0.0	0.0	0.0
Screening Operations	13.7	4.76	0.0	0.0	0.0	0.0	0.0
Material Handling & Storage Piles	2.98	2.98	0.0	0.0	0.0	0.0	0.0
Total Emissions From Portable Plant	22.9	11.3	1.56	1.96	5.12	23.8	2.93E-02
PSD/Emission Offset Thresholds	25	15	40	40	100	40	NA

- (a) This modification to an existing major stationary source is not major because the emissions increase for each criteria pollutant is less than the PSD significant levels. Therefore, the provisions of 326 IAC 2-2, PSD do not apply.
- (b) Lake County has been designated as nonattainment for PM_{2.5} in 70 FR 943 dated January 5, 2005. According to the April 5, 2005 EPA memo titled "Implementation of New Source Review Requirements in PM_{2.5} Nonattainment Areas" authored by Steve Page, Director of OAQPS, until EPA promulgates the PM_{2.5} major NSR regulations, states should assume that a major stationary source's PM₁₀ emissions represent PM_{2.5} emissions. IDEM will use the PM₁₀ nonattainment major NSR program as a surrogate to address the requirements of nonattainment major NSR for the PM_{2.5} NAAQS. A significant emissions increase would be a net emissions increase or the potential of fifteen (15) tons per year or greater of PM₁₀. J.L. Smith Services DBA American Crushing & Recycling has the potential to emit of PM₁₀ from the modification less than fifteen (15) tons per year. Therefore, assuming that PM₁₀ emissions represent PM_{2.5} emissions, the provisions of 326 IAC 2-3 do not apply for PM_{2.5}.

Federal Rule Applicability Determination

- (a) The requirements of New Source Performance Standard, 40 CFR 60.670 through 60.676, Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants is not applicable to this modification because the capacity of this portable crushing and screening plant is less than 150 tons per hour. [40 CFR 60.670(c)(2)]
- (b) The requirements of New Source Performance Standard 326 IAC 12, 40 CFR 60.380 through 60.686, Subpart LL - Standards of Performance for Metallic Mineral Processing Plants (326 IAC 12) are not applicable to this modification since the operations are not producing metallic mineral concentrates from ore. The slag crushing and/or screening operations are not performed in a mine or pit.

There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification.

Relocation of Portable Sources

- (a) This permit is approved for operation in Indiana. This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2, and Emission Offset requirements in 326 IAC 2-3. Prior to locating in any other nonattainment area, the Permittee must submit a request and obtain a permit modification.
- (b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
 - (1) A list of governmental officials entitled to receive notice of application to relocate. [IC 13-15-3-1]
 - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8 The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) "Relocation Site Approval" letter shall be obtained prior to relocating.
- (d) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:

- (1) Madison County - (Anderson Office of Air Management)
 - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
 - (3) City of Gary -(Gary Department of Environmental Affairs)
 - (4) City of Hammond - (Hammond Department of Environmental Management)
 - (5) Marion County - (Indianapolis Office of Environmental Services)
 - (6) Vigo County - (Vigo County Air Pollution Control)
- (e) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

326 IAC 2-2 and 2-3 (PSD and Emission Offset)

PSD and Emission Offset applicability is discussed under the Permit Level Determination - PSD and Emission Offset section.

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

The operation of this portable crushing and screening plant will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, the requirements of 326 IAC 2-4.1 do not apply to this modification.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit under 326 IAC 2-7, Part 70 program, and it is located in Lake county. Pursuant to this rule, the Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period identified in 326 IAC 2-6. The provisions of 326 IAC 2-6 shall be included in the pending Part 70 Permit No.: 089-23525-00509.

326 IAC 5-1 (Opacity Limitations)

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

326 IAC 6.8-10-3 (Lake County Fugitive Particulate Matter Control Requirements) and 326 IAC 6.8-11 (Particulate Matter Contingency Measures)

- (a) Pursuant to 326 IAC 6.8-10-3 (Lake County Fugitive Particulate Matter Control Requirements), 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 average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
 - (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) 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.
 - (9) The PM10 emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (10) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
 - (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.
 - (12) The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on July 19, 2006 and attached to the permit as Attachment A.
- (b) The source is subject to 326 IAC 6.8-11 (Lake County Particulate Matter Contingency Measures), because it is subject to the requirements of 326 IAC 6.8-10. Pursuant to this rule, the source shall comply with 326 IAC 6.8-11-4 and 326 IAC 6.8-11-6.

326 IAC 6.8-2 (Lake County: PM10 Emission Requirements)

J.L. Smith Services DBA American Crushing and Recycling, an on-site contractor of U.S. Steel Gary Works, is not specifically listed under this rule or in 326 IAC 6.8-3 through 326 IAC 6.8-8. Therefore, the provisions of this rule do not apply.

326 IAC 6.8-1-2 (Particulate Emission Limitations for Lake County)

This source is subject to the requirements of 326 IAC 6.8-1-2 (Particulate Emission Limitations for Lake County) because the potential emissions from the entire source (including crushing and screening operations) are greater than 100 tons per year.

- (a) Pursuant to 326 IAC 6.8-1-2(a) particulate matter emissions the crushing and screening operations shall not exceed 0.03 grains per dry standard cubic foot (dscf).
- (b) Pursuant to 326 IAC 6.8-1-2(a) particulate matter emissions from the one (1) diesel engine with a maximum heat input capacity of 1.24 MMBtu per hour, shall not exceed 0.03 grains per dry standard cubic foot (dscf).

Note: The diesel engine is a type of internal combustion engine, in which the fuel is ignited by being suddenly exposed to the high temperature and pressure of the compressed gas. The Permittee uses this engine to power their plant. It is not a steam generator. Therefore, 326 IAC 6.8-1-2(b) is not applicable.

326 IAC 6-4-2 (Fugitive Dust Emissions), 326 IAC 6.8-10-3 (Lake County Fugitive Particulate Matter Emissions)

(a) Pursuant to 326 IAC 6-4-2:

(1) The screening, and conveying, generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:

(A) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$P = \frac{100(R - U)}{U}$$

Where

P = Percentage increase

R = Number of particles of fugitive dust measured at downward receptor site

U = Number of particles of fugitive dust measured at upwind or background site

(B) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

$$PR = (1.5 \pm N) P$$

Where

N = Fraction of fugitive dust that is respirable dust;

PR = allowable percentage increase in dust concentration above background; and

P = no value greater than sixty-seven percent (67%).

(C) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.

(D) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section. 326 IAC 6-4-2(4) is not federally enforceable.

(2) Pursuant to 326 IAC 6-4-6(6) (Exceptions), fugitive dust from a source caused by adverse meteorological conditions will be considered an exception to this rule (326 IAC 6-4) and therefore not in violation.

(b) Pursuant to 326 IAC 6.8-10-3 (Lake County Fugitive Particulate Matter Emissions Limitations), fugitive emissions from the screening, and conveying, generating fugitive dust shall comply with the emissions limitations in Section C - Fugitive Dust Emissions.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the

requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

The following compliance monitoring requirements are applicable to this source:

- (a) Visible emission notations of the crushing, screening, and conveying shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

Conclusion and Recommendation

The construction and operation of this proposed modification (portable crushing and screening plant) shall be subject to the conditions of the attached proposed Minor Source Modification No. 089-23031-00509 and Part 70 Permit No. 089-23525-00509. The staff recommends to the Commissioner that this Part 70 Minor Source Modification be approved.

**Appendix A: Emission Calculations
Diesel No. 2 Fuel Oil Combustion Only
One (1) Diesel Generator**

Company Name: J.L. Smith Services DBA American Crushing & Recycling
Address: One North Broadway, Gary, Indiana 46402
MSM: 089-23031
Plt ID: 089-00509
Reviewer: ERG/SD
Date: July 19, 2006

Heat Input Capacity
(MMBtu/hour)

Potential Throughput
(kgals/year)

1.24

78.7

	Pollutant					
	* PM	* PM10	SO ₂	NOx	VOC	CO
Emission Factor (lb/kgal)	42.5	42.5	39.7	604	0.36	130
Emission Factor (lb/MMBtu)						
Potential To Emit (tons/year)	1.67	1.67	1.56	23.8	1.96	5.12

* PM and PM10 emission factors are filterable and condensable PM and PM10 combined.
One (1) gallon of No. 2 Fuel Oil has a heating value of 138,000 Btu.

Emission factors are from FIRE 6.23, Reciprocating Engine - SCC # 2-04-004-02.
Emission factor for VOC is from AP-42, Chapter 3.3 Table 3.3-1, SCC # 2-03-001-01 (10/96).
The sulfur content of the fuel used at the source is equal to 50%

METHODOLOGY

Potential throughput (kgals/year) = Heat input capacity (MMBtu/hour) * 8760 hours/year * 1 kgal/1000 gallon * 1 gallon/0.138 MMBtu
PTE of VOC (tons/year) = Heat Input Capacity (MMBtu/hour) * Emission factor (lb/MMBtu) * 8760 hours/year * 1 ton/2000 lbs
PTE of PM, PM10, SO₂, NOx, & CO (tons/year) = Potential throughput (kgal/year) * Emission factor (lb/kgal) * 1 ton/2000 lbs
See next page for HAPs emissions calculations.

**Appendix A: Emission Calculations
Diesel No. 2 Fuel Oil Combustion Only
One (1) Diesel Generator**

Company Name: J.L. Smith Services DBA American Crushing & Recycling
Address: One North Broadway, Gary, Indiana 46402
MSM: 089-23031
Plt ID: 089-00509
Reviewer: ERG/SD
Date: July 19, 2006

HAPs - Organics

	Benzene	Xylene	Propylene	Formaldehyde	Toluene
Emission Factor (lb/MMBtu)	9.33E-04	2.85E-04	2.58E-03	1.18E-03	4.09E-04
Potential To Emit (tons/year)	5.07E-03	1.55E-03	1.40E-02	6.41E-03	2.22E-03

	Acetaldehyde	Acrolein
Emission Factor (lb/MMBtu)	7.67E-04	9.25E-05
Potential To Emit (tons/year)	4.17E-03	5.02E-04

Emission factors for HAPs are from AP-42, Chapter 3.3, Table 3.3-2 (10/96).

METHODOLOGY

PTE of HAPs (tons/year) = Heat input capacity (MMBtu/hour) * Emission factor (lb/MMBtu) * 8760 hours/year * 1 ton/2000 lbs.

**Appendix A: Emission Calculations
Crushing & Screening Operations**

Company Name: J.L. Smith Services DBA American Crushing & Recycling
Address: One North Broadway, Gary, Indiana 46402
MSM: 089-23031
Plt ID: 089-00509
Reviewer: ERG/SD
Date: July 19, 2006

Operation Type	Maximum Capacity (tons/hour)	Emission Factor (lb PM per ton)	PTE of PM (tons/year)	Emission Factor (lb PM10 per ton)	PTE of PM10 (tons/year)
Truck Unloading	125	1.65E-05	9.03E-03	1.65E-05	9.03E-03
Conveyor Transfer Point	125	0.003	1.64	0.0011	0.60
Crushing	125	0.0054	2.96	0.0024	1.31
Screening	125	0.025	13.7	0.0087	4.76
* Material Handling & Storage Piles	125	0.0054	2.98	0.0054	2.98

Emission factors are from AP-42, Chapter 11.19.2 - Crushed Stone Processing, Table 11.19.2-2. (08/04)
 SCC 3-05-020-31, 3-05-020-06, 3-05-030-03, 3-05-020-02,03)

* Emission factors for material handling & storage piles are from AP-42, Chapter 13.2.4 and calculated as shown below.

* Emission Factor in lb/ton = $k \cdot (0.0032) \cdot [(U/5)^{1.3} \cdot 1/(M/2)^{1.4}]$

K = particle size multiplier	0.74
U = mean wind speed, m/sec	10
M = material moisture content	2.1
E.F (lb/ton) =	0.0054

METHODOLOGY

PTE for PM and PM10 (tons/year) = Max. Capacity (tons/hour) * Emission factor (lb/ton) * 8760 hours/year * 1 ton/2000 lbs

**Appendix A: Emission Calculations
SUMMARY**

Company Name: J.L. Smith Services DBA American Crushing & Recycling
Address: One North Broadway, Gary, Indiana 46402
MSM: 089-23031
Pit ID: 089-00509
Reviewer: ERG/SD
Date: July 19, 2006

POTENTIAL TO EMIT IN TONS PER YEAR

Emission Unit	PM	PM10	SO₂	NO_x	VOC	CO	HAPs
Diesel Generator	1.67	1.67	1.56	23.8	1.96	5.12	3.39E-02
Truck Unloading	9.03E-03	9.03E-03					
Conveyor Transfer Point	1.64	0.60					
Crushing	2.96	1.31					
Screening	13.7	4.76					
* Material Handling & Storage Piles	2.98	2.98					
TOTAL	22.9	11.3	1.56	23.8	1.96	5.12	3.39E-02

Appendix B
Fugitive Dust Control Plan

Appendix B Fugitive Dust Control Plan

J.L.Smith Services DBA American Crushing & Recycling Company

11 South Main Street
Milton, Ohio 45383

TELEPHONE (937) 698-8016
FACSIMILIE (937) 325-2052

FUGITIVE DUST CONTROL PLAN
Portable Crushing and Screening Plant
Plant ID Number 089-23525-00509

Primary Contact

Victoria V. Hathaway
Manager of Operations
11 South Main Street
Milton, Ohio 45383
(937) 698-8016

Roadway Control

- (a) Paved roadways are the responsibility of the steel mill. Unpaved roadways at the plant are inspected each day of operation to determine if dust suppression is required.
- (b) Water sprays from a water truck may be applied as needed to wet down unpaved areas, except during periods of rain, ice or snow.

Crushing, Screening, Transfer and Material Handling Activities, Storage Piles Control Measures

Water sprays will be installed on the crusher. The screen is below the crusher and moisture will carry-over to the screen and conveyors. If excess emissions are observed, operations will stop and control methods as specified below will be employed:

- (c) Water sprays may be applied continuously on the crusher and screen to comply with the opacity limits, to get its moisture level above 10%.
- (d) Carry-over from the application of water will abate emissions from transfer activities, storage piles, and material transportation activities.
- (e) Water will not be applied during freezing weather, typically between October 15 and April 15.
- (f) Compliance with 10% opacity limit will be ascertained by testing using certified test methods e.g. U.S. EPA Method 5 or Method 22, as deemed necessary.