

**PART 70 OPERATING PERMIT
and ENHANCED NEW SOURCE REVIEW
OFFICE OF AIR MANAGEMENT**

**Mica Metals Incorporated
Route 17, Peerless Road
Needmore, Indiana 47421**

(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 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 and 326 IAC 2-1-3.2 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.

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| Operation Permit No.: T 093-7641-05064 | |
| Issued by: Original signed by: Janet G. McCabe, Assistant Commissioner Office of Air Management | Issuance Date: September 1, 1999 |

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Effective Date of the Permit
First Time Operation Permit**

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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 Management (OAM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

The Permittee owns and operates a stationary aluminum processing source.

Responsible Official: William A. Zebedee
Source Address: Route 17, Peerless Road, Needmore, Indiana 47421
Mailing Address: P.O. Box 788, Bedford, Indiana 47421
SIC Code: 3341
County Location: Lawrence
County Status: Attainment for all criteria pollutants
Source Status: Part 70 Permit Program
Major Source, under PSD Rules

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

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

- (a) One (1) custom natural gas-fired rotating drum dryer, identified as DR, with a maximum heat input capacity of 4.24 million British thermal units per hour, using an 8.5 million British thermal unit per hour afterburner as control, and exhausting to stack DR-1.
- (b) Two (2) natural gas-fired rotary furnaces, identified as MF1 and MF2, with maximum heat input capacities of 6.0 million British thermal units per hour, each, and maximum capacities of 3,000 pounds of aluminum per hour, each, using capture hoods and a baghouse (BH-4) as control, and exhausting to stack BH-4.
- (c) One (1) natural gas-fired rotary furnace, identified as MF3, with a maximum heat input capacity of 6.0 million British thermal units per hour, and a maximum capacity of 3,000 pounds of aluminum per hour, using a capture hood and a baghouse (BH-M6) as control, and exhausting to stack BH-M6.
- (d) One (1) conveyORIZED screen separator, identified as SC, with a maximum capacity of 8,000 pounds of scrap aluminum per hour, using a capture hood and a baghouse (BH-3) as control, and exhausting to stack BH-3.
- (e) One (1) double drum magnetic separator, identified as SP, with a maximum capacity of 8,000 pounds of scrap aluminum per hour, using a capture hood and a baghouse (BH-2) as control, and exhausting to stack BH-2.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]
[326 IAC 2-7-5(15)]

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

- (a) One (1) hammermill, identified as HM.
- (b) One (1) centrifuge, identified as CT.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [326 IAC 2-1-10] [IC 13]

- (a) 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 Part 70 permit under 326 IAC 2-7.
- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-1-3.2 or 326 IAC 2-7-15, as set out in this permit in the Section B condition entitled "Permit Shield."

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

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

B.3 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-7-7(a)]

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

B.5 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.6 Severability [326 IAC 2-7-5(5)]

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.7 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

B.8 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that IDEM, OAM, 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.
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAM, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, then the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit constitutes a violation of the Clean Air Act and is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or
 - (3) Denial of a permit renewal application.
- (b) 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.

B.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)]

- (a) Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this permit, 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, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.11 Annual Compliance Certification [326 IAC 2-7-6(5)]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was based on continuous or intermittent data;
 - (4) The methods used for determining compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3);
 - (5) Any insignificant activity that has been added without a permit revision; and
 - (6) Such other facts, as specified in Sections D of this permit, as IDEM, OAM, may require to determine the compliance status of the source.

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

B.12 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 permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, 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;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMP 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 Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM.

B.13 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, except as provided in 326 IAC 2-7-16.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM, 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 Management, Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice, either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAM, 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, OAM, by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.

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

B.14 Permit Shield [326 IAC 2-7-15]

- (a) This condition provides a permit shield as addressed in 326 IAC 2-7-15.
- (b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. Compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that:
 - (1) The applicable requirements are included and specifically identified in this permit; or
 - (2) The permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable.
- (c) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAM, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (d) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application.
- (e) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (f) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (g) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAM, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAM, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.15 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.16 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:

- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
- (2) An emergency as defined in 326 IAC 2-7-1(12); or
- (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
- (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

(c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)]

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-

15-7-2 or if IDEM, OAM, determines any of the following:

- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAM, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.18 Permit Renewal [326 IAC 2-7-4]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]
- (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) 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, OAM, on or before the date it is due. [326 IAC 2-5-3]
 - (2) If IDEM, OAM, upon receiving a timely and complete 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,

including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3]
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 2-7 until IDEM, OAM, 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 in writing by IDEM, OAM, any additional information identified as being needed to process the application.
- (d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]
If IDEM, OAM, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) The Permittee must comply with 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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "responsible official" as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule.

- (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.20 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

- (b) Notwithstanding 326 IAC 2-7-12(b)(1)(D)(i) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.21 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-7-20(b)]

The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at

326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a) and the following additional conditions:

- (a) For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.
- (b) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).

B.22 Operational Flexibility [326 IAC 2-7-20]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

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

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

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAM, in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

- (b) For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
- (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and
 - (4) Any permit term or condition that is no longer applicable as a result of the change.

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).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAM, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.23 Construction Permit Requirement [326 IAC 2]

Except as allowed by Indiana P.L. 130-1996 Section 12, as amended by P.L. 244-1997, modification, construction, or reconstruction shall be approved as required by and in accordance with 326 IAC 2.

B.24 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements. [326 IAC 2-7-6(6)]
 - (1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAM, or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAM, nor an authorized representative, may disclose the information unless and until IDEM, OAM, makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]
 - (2) The Permittee, and IDEM, OAM, acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]

B.25 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-7-11]

Pursuant to 326 IAC 2-1-6 and 326 IAC 2-7-11:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the Permittee and the new owner.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-7-11. 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).
- (c) IDEM, OAM, shall reserve the right to issue a new permit.

B.26 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM, the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

B.27 Enhanced New Source Review [326 IAC 2]

The requirements of the construction permit rules in 326 IAC 2 are satisfied by this permit for any previously unpermitted facilities and facilities to be constructed within eighteen (18) months after the date of issuance of this permit, as listed in Sections A.2 and A.3.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Major Source

Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21, this source is a major source.

C.2 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

C.3 Opacity [326 IAC 5-1]

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

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

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

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

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

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

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

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall currently be controlled according to the plan submitted on December 12, 1996. If the plan is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable plan. The current plan consists of:

- (a) furnaces being located indoors when possible.
- (b) furnaces being inclosed on three sides and the hoods being enclosed on three sides when the furnaces must be located outside.
- (c) fugitive emissions from the unpaved roads and parking areas being treated with water or a suitable and effective dust suppressant approved by the commissioner as needed.
- (d) aggregate piles being relocated indoors where possible.
- (e) areas around the aggregate piles being cleaned and swept as needed.
- (f) vehicle transfer distance between furnaces and piles being minimized.
- (g) the application of water or a suitable and effective chemical dust suppressants being used to minimize visible emissions from the aggregate piles where necessary.
- (h) the frequency, if applicable, of water or chemical spray being as needed.

C.8 Operation of Equipment [326 IAC 2-7-6(6)]

All air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (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
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory 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) Indiana Accredited 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 Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.10 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing methods approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

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

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

C.11 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) Has certified that all facilities at this source are in compliance with all applicable requirements; and
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) Will comply with such applicable requirements that become effective during the term of this permit.

C.12 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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, no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee may extend compliance schedule an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

C.13 Maintenance of Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.14 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the applicable requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.15 Pressure Gauge and Temperature Sensor Specifications

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device or temperature of any part of a unit or control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.16 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ninety (90) days after the date of issuance of this permit.

The ERP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAM, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.17 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present in a process in more than the threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
 - (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or

- (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM, OAM, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM, that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.18 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]
[326 IAC 1-6]

-
- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
- (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of:
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.

- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
 - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.19 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 permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (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, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not 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.20 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement

shall meet the following requirements:

- (1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:
- Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) The annual emission statement 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, OAM, on or before the date it is due.

C.21 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.22 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required monitoring data and support information 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 kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM, representative. 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 written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that improper maintenance did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.23 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Semi-annual Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported.

- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any semi-annual report shall be submitted within thirty (30) days of the end of the reporting period.
- (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports.
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

The documents submitted pursuant to this condition do not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

Stratospheric Ozone Protection

C.24 Compliance with 40 CFR 82 and 326 IAC 22-1

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

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) custom natural gas-fired rotating drum dryer, identified as DR, with a maximum heat input capacity of 4.24 million British thermal units per hour, using an 8.5 million British thermal unit per hour afterburner as control, and exhausting to stack DR-1.

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

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

Pursuant to PC (47)-1789, issued January 12, 1990, the afterburner for VOC control is the best available control technology (BACT) for this facility and shall limit VOC emissions to no more than 9.93 pounds per hour, equivalent to 43.5 tons per year.

D.1.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the dryer and afterburner shall not exceed 19.2 pounds per hour when operating at a process weight rate of 20,000 pounds per hour.

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

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

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

D.1.3 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 this facility and any control devices.

Compliance Determination Requirements

D.1.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

- (a) During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform VOC testing utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.
- (b) During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform PM testing utilizing Method 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.1.5 Volatile Organic Compounds (VOC)

Compliance with the VOC emission limitation contained in Condition D.1.1 shall be demonstrated by operating the afterburner for VOC control at all times when the dryer is in operation. Pursuant to PC (47)-1789, issued January 12, 1990, when the dryer is in operation when venting to the atmosphere, the chamber temperature of the afterburner shall be maintained at no less than 1400 degrees Fahrenheit or another temperature determined by a stack test that verifies compliance with Condition D.1.1. Continuous instrumentation shall monitor and record this temperature to verify compliance with Condition D.1.1.

The instrument used for determining the temperature shall comply with Section C -Pressure Gauge and Temperature Sensor Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

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

D.1.6 Visible Emissions Notations

- (a) Daily visible emission notations of the dryer and afterburner stack (DR-1) exhaust shall be performed once per shift 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) Pursuant to CP 093-5345-05064, issued November 7, 1996, stack emissions from the dryer and afterburner shall be monitored via a closed circuit TV Continuous Surveillance system. The Surveillance system shall be made capable of visually recording stack exhaust at night. The Surveillance system shall be operated a minimum of ninety-five percent (95%) of the total possible hours of any thirty (30) day period, and each videotape shall be preserved for inspection for at least thirty (30) days from the date of taping. Emissions recorded on these tapes shall not be used by or against Mica Metals, Incorporated in any enforcement action pertaining to visible emissions (326 IAC 5-1-2, Opacity Limitations).
- (f) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

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

D.1.7 Record Keeping Requirements

- (a) To document compliance with Condition D.1.6, the Permittee shall maintain records of daily visible emission notations of the dryer and afterburner stack (DR-1) exhaust.
- (b) To document compliance with Condition D.1.5, the Permittee shall maintain the following:

- (1) Continuous records of the temperature inside the afterburner chamber during normal operation when venting to the atmosphere.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) 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)]

- (b) Two (2) natural gas-fired rotary furnaces, identified as MF1 and MF2, with maximum heat input capacities of 6.0 million British thermal units per hour, each, and maximum capacities of 3,000 pounds of aluminum per hour, each, using capture hoods and a baghouse (BH-4) as control, and exhausting to stack BH-4.
- (c) One (1) natural gas-fired rotary furnace, identified as MF3, with a maximum heat input capacity of 6.0 million British thermal units per hour, and a maximum capacity of 3,000 pounds of aluminum per hour, using a capture hood and a baghouse (BH-M6) as control, and exhausting to stack BH-M6.

Construction Conditions [326 IAC 2-1-3.2]

General Construction Conditions

D.2.1 Pursuant to CP 093-5345-05064 issued November 7, 1996, this permit 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.

Effective Date of the Permit

D.2.2 Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

D.2.3 Pursuant to 326 IAC 2-1-9(b) (Revocation of Permits) and CP 093-5345-05064 issued November 7, 1996, IDEM, OAM, may revoke this section of the approved permit if construction is not commenced within eighteen (18) months after receipt of this permit or if construction is suspended for a continuous period of one (1) year or more.

D.2.4 Pursuant to CP 093-5345-05064 issued November 7, 1996, all requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

First Time Operation Permit

D.2.5 This document shall also become the first-time operation permit for the facilities under this section of this permit, pursuant to 326 IAC 2-1-4 (Operating Permits) when, prior to start of operation, the following requirements are met:

- (a) The attached affidavit of construction shall be submitted to:

Indiana Department of Environmental Management
Permit Administration & Development Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

verifying that the facilities were constructed as proposed in the application. The facilities

covered in this section of this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.

- (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (c) The Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this permit.

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

D.2.6 Particulate Matter (PM) [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the three (3) rotary furnaces shall not exceed 5.38 pounds per hour, each, when operating at a process weight rate of 3,000 pounds per hour, each.

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

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

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

D.2.7 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 this facility and its control device.

D.2.8 Opacity [326 IAC 2-1-3(i)(B)]

Pursuant to CP 093-5345-05064, issued November 7, 1996, visible emissions escaping the capture hood shall not exceed twenty percent (20%) opacity, taken as an average of three (3) readings taken five (5) seconds apart.

Compliance Determination Requirements

D.2.9 Testing Requirements [326 IAC 2-7-6(1),(6)]

During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform PM testing utilizing Methods 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.2.10 Particulate Matter (PM)

- (a) Pursuant to CP 093-5345-05064, issued November 7, 1996, the capture hood and bag-houses for PM control shall be in operation at all times when the corresponding rotary furnaces are in operation.
- (b) Pursuant to CP 093-5345-05064, issued November 7, 1996, the capture hoods shall either

be enclosed on three sides (if the furnace is located outdoors), or be located with the furnace inside a building to minimize drafts.

- (c) Pursuant to CP 093-5345-05064, issued November 7, 1996, the waste dross cooling area shall either be covered and piped to a baghouse, or be located inside a building to minimize emissions.

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

D.2.11 Visible Emissions Notations

- (a) Daily visible emission notations of the baghouse stacks (BH-4 and BH-M6) exhaust shall be performed 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) Pursuant to CP 093-5345-05064, issued November 7, 1996, and Condition D.2.8, notations of visible emissions escaping the capture hood shall be performed.
- (f) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.2.12 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the three (3) rotary furnaces, at least once per working shift when any of the three (3) rotary furnaces exhausting to that baghouse are in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across baghouse BH-4 shall be maintained within the range of 5.0 and 8.0 inches of water and the pressure drop across baghouse BH-M6 shall be maintained within the range of 8.0 and 12.0 inches of water or ranges established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instruments used for determining the pressure shall comply with Section C - Pressure Gauge and Temperature Sensor Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.2.13 Broken Bag or Failed Bag Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been

repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.2.14 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the three (3) rotary furnaces when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

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

D.2.15 Record Keeping Requirements

- (a) To document compliance with Condition D.2.11, the Permittee shall maintain records of daily visible emission notations of the baghouse stacks (BH-4 and BH-M6) exhaust.
- (b) To document compliance with Condition D.2.12, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Records of inlet temperature sensor alarms.
 - (3) Documentation of all response steps implemented, per event.
 - (4) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (5) Quality Assurance/Quality Control (QA/QC) procedures.
 - (6) Operator standard operating procedures (SOP).
 - (7) Manufacturer's specifications or its equivalent.
 - (8) Equipment "troubleshooting" contingency plan.

- (9) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.2.14, the Permittee shall maintain records of the results of the inspections required under Condition D.2.14 and the dates the vents are redirected.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

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

- (d) One (1) conveyORIZED screen separator, identified as SC, with a maximum capacity of 8,000 pounds of scrap aluminum per hour, using a capture hood and a baghouse (BH-3) as control, and exhausting to stack BH-3.

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

D.3.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the conveyORIZED screen separator shall not exceed 10.4 pounds per hour when operating at a process weight rate of 8,000 pounds per hour.

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

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

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

D.3.2 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 this facility and its control device.

Compliance Determination Requirements

D.3.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform PM testing utilizing Methods 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.3.4 Particulate Matter (PM)

The capture hood and baghouse (BH-3) for PM control shall be in operation at all times when the conveyORIZED screen separator is in operation.

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

D.3.5 Visible Emissions Notations

- (a) Daily visible emission notations of the baghouse stack (BH-3) exhaust shall be performed 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.3.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the conveyORIZED screen separator, at least once per working shift when the conveyORIZED screen separator is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across baghouse BH-3 shall be maintained within the range of 0.5 and 5.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

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

D.3.7 Broken Bag or Failed Bag Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.3.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the one (1) conveyORIZED screen separator when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be

replaced.

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

D.3.9 Record Keeping Requirements

- (a) To document compliance with Condition D.3.5, the Permittee shall maintain records of daily visible emission notations of the baghouse stack (BH-3) exhaust.
- (b) To document compliance with Condition D.3.6, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.3.8, the Permittee shall maintain records of the results of the inspections required under Condition D.3.8 and the dates the vents are redirected.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.4 FACILITY OPERATION CONDITIONS

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

- (e) One (1) double drum magnetic separator, identified as SP, with a maximum capacity of 8,000 pounds of scrap aluminum per hour, using a capture hood and a baghouse (BH-2) as control, and exhausting to stack BH-2.

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

D.4.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the double drum magnetic separator shall not exceed 10.4 pounds per hour when operating at a process weight rate of 8,000 pounds per hour.

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

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

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

D.4.2 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 this facility and its control device.

Compliance Determination Requirements

D.4.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform PM testing utilizing Methods 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

D.4.4 Particulate Matter (PM)

The capture hood and baghouse (BH-2) for PM control shall be in operation at all times when the double drum magnetic separator is in operation.

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

D.4.5 Visible Emissions Notations

- (a) Daily visible emission notations of the baghouse stack (BH-2) exhaust shall be performed 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.4.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the double drum magnetic separator, at least once per working shift when the double drum magnetic separator is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across baghouse BH-2 shall be maintained within the range of 0.5 and 5.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

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

D.4.7 Broken Bag or Failed Bag Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.4.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the one (1) double drum magnetic separator when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be

replaced.

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

D.4.9 Record Keeping Requirements

- (a) To document compliance with Condition D.4.5, the Permittee shall maintain records of daily visible emission notations of the baghouse stack (BH-2) exhaust.
- (b) To document compliance with Condition D.4.6, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.4.8, the Permittee shall maintain records of the results of the inspections required under Condition D.4.8 and the dates the vents are redirected.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.5 FACILITY OPERATION CONDITIONS

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

- (a) One (1) hammermill, identified as HM.
- (b) One (1) centrifuge, identified as CT.

D.5.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

- (a) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the hammermill shall each not exceed 15.8 pounds per hour when operating at a process weight rate of 15,000 pounds per hour.
- (b) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the centrifuge shall each not exceed 7.58 pounds per hour when operating at a process weight rate of 5,000 pounds per hour.

The pounds per hour limitations were calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

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

Compliance Determination Requirements

D.5.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.5.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

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

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Mica Metals Incorporated
Source Address: Route 17, Peerless Road, Needmore, Indiana 47421
Mailing Address: P.O. Box 788, Bedford, Indiana 47421
Part 70 Permit No.: T 093-7641-05064

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:

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

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

Signature:

Printed Name:

Title/Position:

Date:

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

**PART 70 OPERATING PERMIT
 SEMI-ANNUAL COMPLIANCE MONITORING REPORT**

Source Name: Mica Metals Incorporated
 Source Address: Route 17, Peerless Road, Needmore, Indiana 47421
 Mailing Address: P.O. Box 788, Bedford, Indiana 47421
 Part 70 Permit No.: T 093-7641-05064

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

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted semi-annually. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

| Compliance Monitoring Requirement (e.g. Permit Condition D.1.3) | Number of Deviations | Date of Each Deviation |
|--|----------------------|------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Form Completed By: _____
 Title/Position: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**PART 70 OPERATING PERMIT
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: Mica Metals Incorporated
Source Address: Route 17, Peerless Road, Needmore, Indiana 47421
Mailing Address: P.O. Box 788, Bedford, Indiana 47421
Part 70 Permit No.: T 093-7641-05064

This form consists of 2 pages

Page 1 of 2

| |
|--|
| Check either No. 1 or No.2 |
| 9 1. This is an emergency as defined in 326 IAC 2-7-1(12) C The Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and C The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16 |
| 9 2. This is a deviation, reportable per 326 IAC 2-7-5(3)(c) C The Permittee must submit notice in writing within ten (10) calendar days |

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/Deviation: |
| Describe the cause of the Emergency/Deviation: |

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management Office of Air Management

Addendum to the Technical Support Document for a Part 70 Operating Permit

| | |
|---------------------------|--|
| Source Name: | Mica Metals, Inc. |
| Source Location: | Route 17, Peerless Road, Needmore, Indiana 47421 |
| County: | Lawrence |
| Part 70 Operating Permit: | OP T 093-7641-05064 |
| SIC Code: | 3341 |
| Permit Reviewer: | CarrieAnn Ortolani |

On April 24, 1998, the Office of Air Management (OAM) had a notice published in the Times-Mail, Bedford, Indiana, stating that Mica Metals Incorporated had applied for a Part 70 Operating Permit to operate an aluminum processing source with an afterburner, capture hoods and baghouses as controls. The notice also stated that OAM proposed to issue a Part 70 Operating Permit for this operation and provided information on how the public could review the proposed Part 70 Operating 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 Part 70 Operating Permit should be issued as proposed.

Upon further review, the OAM has decided to make the following changes to the Part 70 Operating Permit. The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language is **bolded**):

1. The Cover Page has been revised as follows:

Issued by:
~~Felicia R. George~~ **Janet G. McCabe**, Assistant Commissioner
Office of Air Management

2. The page numbers have been removed from the table of contents since the condition numbers are sufficient to identify the location of each condition.
3. Section A (Source Summary) has been changed as follows:

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM), ~~and presented in the permit application.~~ **The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.**

4. Condition A.5 (Prior Permit Conditions Superseded) has been deleted. Language has been added to Condition B.14 (Permit Shield) to address the effect of prior permit conditions.

~~A.5 Prior Permit Conditions Superseded [326 IAC 2]~~

~~The terms and conditions of this permit incorporate all the current applicable requirements for all emission units located at this source, and supersede all terms and conditions in all registrations and permits, including construction permits, issued prior to the date of issuance of this permit. All terms and conditions in such registrations and permits are no longer in effect.~~

Section B

5. Condition B.1 (Permit No Defense) part (b) has been changed as follows:
- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-1-3.2 or 326 IAC 2-7-15, **as set out in this permit in the Section B condition entitled "Permit Shield."**
6. Condition B.8 (Duty to Supplement and Provide Information) part (c) has been changed as follows:
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit. **If the Permittee wishes to assert a claim of confidentiality over any of the furnished records,** For information claimed to be confidential, the Permittee **must** ~~shall~~ furnish such records to IDEM, OAM, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, **to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records,** then the Permittee **must** ~~shall~~ furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.
7. Condition B.11 (Annual Compliance Certification) part (c) has been changed to the following:
- (c) The annual compliance certification report shall include the following:
 - (1) The identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was **based on** continuous or intermittent **data**;
 - (4) The methods used for determining compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); ~~and~~
 - (5) Any insignificant activity that has been added without a permit revision; and**
 - ~~(5)~~ **(6)** Such other facts, as specified in Sections D of this permit, as IDEM, OAM, may require to determine the compliance status of the source.

~~The notification which shall be submitted~~ **submittal** by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

8. Condition B.12 (Preventive Maintenance Plan) has been changed as follows:

B.12 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 permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each **facility**:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing ~~emission units and associated~~ emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMP 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 Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015**

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM.

9. Condition B.14 (Permit Shield) has been changed as follows:

B.14 Permit Shield [326 IAC 2-7-15]

(a) **This condition provides a permit shield as addressed in 326 IAC 2-7-15.**

~~(a)~~ (b) **This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.** Compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided **that** either of the following:

- (1) The applicable requirements are included and specifically identified in this permit; **or**
- (2) IDEM, OAM, in acting on the Part 70 permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the Part 70 permit includes the determination

~~or a concise summary thereof.~~ **The permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable.**

- (b) (c) ~~No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application.~~ **If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAM, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.**
- (c) (d) ~~If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement, IDEM, OAM, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.~~ **No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application.**
- (e) (e) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
- (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) (f) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) (g) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAM, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) (h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAM, has issued the modification. [326 IAC 2-7-12(b)(8)]

10. Condition B.16 (Deviations from Permit Requirements and Conditions) has been changed as follows:

B.16 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) **A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:**

- (1) **An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or**
- (2) **An emergency as defined in 326 IAC 2-7-1(12); or**
- (3) **Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.**
- (4) **Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.**

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- ~~(b)~~ (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. **The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).**

- ~~(c)~~ (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

11. Condition B.18 (Permit Renewal) part (a) has been changed as follows:

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) **and 326 IAC 2-7-1(40).**

12. Conditions B.19 (Administrative Permit Amendment), B.20 (Minor Permit Modification), and B.21 (Significant Permit Modification) have all been combined into a new Condition B.19 (Permit Amendment or Modification) as follows. Conditions B.20 and B.21 have been deleted and the remainder of Section B has been renumbered. The new B.19 condition reads as follows:

B.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) **The Permittee must comply with 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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015**
- Any such application should be certified by the “responsible official” as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule.**
- (c) **The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]**

13. Condition B.26 (now B.24) (Inspection and Entry) has removed “IDEM”, since Local Agencies do not have IDEM identification cards. Also, part (e)(1) and (e)(2) have been added.

B.24 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of ~~IDEM~~ **proper** identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements. [326 IAC 2-7-6(6)]

- (1) **The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAM, or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAM, nor an authorized representative, may disclose the information unless and until IDEM, OAM, makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9]**
- (2) **The Permittee, and IDEM, OAM, acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2, Subpart B]**

14. Condition B.27 (now B.25) (Transfer of Ownership or Operation) part (b) has been changed as follows:

- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-7-11. **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).**

15. Condition B.28 (now B.26) (Annual Fee Payment) has been changed as follows:

B.26 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) ~~The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing. or in a time period consistent with the fee schedule established in 326 IAC 2-7-19.~~ **If the Permittee does not receive a bill from IDEM, OAM, the applicable fee is due April 1 of each year.**
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) ~~If the Permittee does not receive a bill from IDEM, OAM, thirty (30) calendar days before the due date, The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee. The applicable fee is due April 1 of each year.~~

Section C

16. Condition C.1 has been changed as follows:

C.1 Major Source

Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration) **and 40 CFR 52.21**, this source is a major source.

17. Condition C.2 (Particulate Matter Emission Limitations for Processes with Process Weight Rates Less Than One Hundred pounds per hour) has been added and the remaining conditions have been renumbered accordingly.

C.2 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

18. Since the fugitive particulate matter plan submitted by the Permittee has not achieved the required approval, Condition C.6 (now C.7) (Fugitive Particulate Matter Emission Limitations) has been revised as follows:

C.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall **currently** be controlled according to the plan submitted on December 12, 1996. **If the plan is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable plan.** The **current** plan consists of:

- (a) furnaces being located indoors when possible.
- (b) furnaces being inclosed on three sides and the hoods being enclosed on three sides when the furnaces must be located outside.
- (c) fugitive emissions from the unpaved roads and parking areas being treated with water or a suitable and effective dust suppressant approved by the commissioner as needed.
- (d) aggregate piles being relocated indoors where possible.
- (e) areas around the aggregate piles being cleaned and swept as needed.
- (f) vehicle transfer distance between furnaces and piles being minimized.
- (g) the application of water or a suitable and effective chemical dust suppressants being used to minimize visible emissions from the aggregate piles where necessary.
- (h) the frequency, if applicable, of water or chemical spray being as needed.

19. Condition C.7 (now C.8) (Operation of Equipment) has been revised as follows:

C.8 Operation of Equipment [326 IAC 2-7-6(6)]

All air pollution control equipment listed in this permit **and used to comply with an applicable requirement** shall be operated at all times that the emission units vented to the control equipment are in operation. ~~as described in Section D of this permit.~~

20. Condition C.8 (now C.9) (Asbestos Abatement Projects - Accreditation) and Condition C.15 (Asbestos Abatement Projects) have been combined into one condition as follows:

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (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
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory 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) **Indiana Accredited 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 Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

21. Condition C.9 (now C.10) (Performance Testing) has had the rule cite changed to 326 IAC 3-6 and the following language has been added:

C.10 Performance Testing [~~326 IAC 3-2-1~~] **[326 IAC 3-6]**

- (a) All testing shall be performed according to the provisions of 326 IAC-~~3-2-1~~ **3-6** (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing methods approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days ~~before~~ **prior to** the intended test date. **The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.**

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

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

22. Condition C.10 (now C.11) (Compliance Schedule) has been changed as follows:

C.11 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) **Has certified that all facilities at this source are in compliance with all applicable requirements; and** ~~Will continue to comply with such requirements that become effective during the term of this permit; and~~
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) **Will comply with such applicable requirements that become effective during**

~~the term of this permit. Has certified that all facilities at this source are in compliance with all applicable requirements.~~

23. Condition C.11 (now C.12) (Compliance Monitoring) has been changed as follows:

~~C.12 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]~~

~~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, no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee **may extend compliance schedule an additional ninety (90) days provided the Permittee shall** notifies:~~

~~Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015~~

~~in writing, **prior to the end of the initial ninety (90) day compliance schedule** no more than ninety (90) days after receipt of this permit, with full justification of the reasons for the inability to meet this date. and a schedule which it expects to meet. If a denial of the request is not received before the monitoring is fully implemented, the schedule shall be deemed approved.~~

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

24. Condition C.13 (now C.14) (Monitoring Methods) has been changed as follows:

~~C.14 Monitoring Methods [326 IAC 3]~~

~~Any monitoring or testing performed to meet the **applicable** requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.~~

25. Condition C.15 (Asbestos Abatement Projects) has been deleted and has been incorporated into the revised Condition C.9 (Asbestos Abatement Projects).

~~C.15 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]~~

~~(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~~~~
- ~~(3) 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
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015~~

- ~~(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory 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) Indiana Accredited 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 Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.~~

26. Condition C.16 (Emergency Reduction Plans) has been changed as follows:

C.16 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ninety (90) days after the date of issuance of this permit.

The ERP does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

- (c) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP. ~~If after this time, the Permittee does not submit an approvable ERP, then IDEM, OAM, shall supply such plan.~~
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAM, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

27. Condition C.17 (Risk Management Plan) has been changed as follows:

C.17 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present **in a process** in more than the threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
 - (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM, OAM, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM, that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

28. Condition C.18 (Compliance Monitoring Plan - Failure to Take Response Steps) has had the following rule cite changes:

Condition C.18 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5(~~3~~)]**[326 IAC 2-7-6] [326 IAC 1-6]**

29. Condition C.19 (Actions Related to Noncompliance Demonstrated by a Stack Test), has had the rule cites added to the title and following language added:

C.19 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 permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (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, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

30. Condition C.20 (Emission Statement) part (a) has been changed as follows:

- (a) The Permittee shall submit ~~an certified~~, annual emission statement **certified pursuant to the requirements of 326 IAC 2-6**, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:

31. Condition C.22 (General Record Keeping Requirements) has been changed as follows:

C.22 General Record Keeping Requirements [326 IAC 2-7-5(3)(~~B~~)]**[326 IAC 2-7-6]**

-
- (a) Records of all required monitoring data and support information 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 kept at the source location **for a minimum of three (3) years** and available **upon the request** ~~within one (1) hour upon verbal request of an IDEM, OAM, representative, for a minimum of three (3) years. They~~ **The records** may be stored elsewhere for the remaining two (2) years **as long as they are available upon request** ~~providing they are made available~~

~~within thirty (30) days after written request.~~ **If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.**

32. Condition C.23 (General Reporting Requirements) has had the following changes:

C.23 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) To affirm that the source has met all the **compliance monitoring** requirements stated in this permit the source shall submit a ~~Quality~~ **Semi-annual Compliance Monitoring** Report. Any deviation from the requirements and the date(s) of each deviation must be reported.
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any **semi-annual** report shall be submitted within thirty (30) days of the end of the reporting period.
- (e) All instances of deviations **as described in Section B- Deviations from Permit Requirements Conditions** must be clearly identified in such reports. ~~A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:~~
- ~~(1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or~~
 - ~~(2) An emergency as defined in 326 IAC 2-7-1(12); or~~
 - ~~(3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.~~
 - ~~(4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.~~

~~A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.~~

- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Section D

33. Section D (Facility Operation Conditions) has had the following language added to the facility description box in all Section Ds

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

34. Since the afterburner must be in operation and satisfying the chamber temperature requirements of D.1.7 to demonstrate compliance with Condition D.1.1, Conditions D.1.5 and D.1.7 have been combined in Condition D.1.5. The remainder of Section D.1 is renumbered accordingly.

D.1.5 Volatile Organic Compounds (VOC)

Compliance with the VOC emission limitation contained in Condition D.1.1 shall be demonstrated by operating the afterburner for VOC control at all times when the dryer is in operation. Pursuant to PC (47)-1789, issued January 12, 1990, ~~the Permittee shall record the chamber temperature of the afterburner used in conjunction with the dryer, at least once every hour when the dryer is in operation when venting to the atmosphere, Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the~~ **chamber** temperature of the afterburner shall be **maintained at** no less than 1400 degrees Fahrenheit **or another temperature determined by a stack test that verifies compliance with Condition D.1.1. Continuous instrumentation shall monitor and record this temperature to verify compliance with Condition D.1.1.** ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.~~

The instrument used for determining the temperature shall comply with Section C -Pressure Gauge and Temperature Sensor Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

35. Condition D.1.6 (Visible Emissions Notations) part (e) has been revised as follows:
- (e) Pursuant to CP 093-5345-05064, issued November 7, 1996, stack emissions from the dryer and afterburner shall be monitored via a closed circuit TV Continuous Surveillance system. **The Surveillance system shall be made capable of visually recording stack exhaust at night.** The Surveillance system shall be operated a minimum of ninety-five percent (95%) of the total possible hours of any thirty (30) day period, and each videotape shall be preserved for inspection for at least thirty (30) days from the date of taping. Emissions recorded on these tapes shall not be used by or against Mica Metals, Incorporated in any enforcement action pertaining to visible emissions (326 IAC 5-1-2, Opacity Limitations).

36. Pursuant to PC (47) 1789 issued January 12, 1990, continuous instrumentation shall monitor and record the chamber temperature of the afterburner to verify compliance with Conditions D.1.1 and D.1.5. Condition D.1.8 (Record Keeping Requirements) part (b) (now D.1.7(b)) has been revised as follows:
- (b) To document compliance with Condition ~~D.1.7~~ **D.1.5**, the Permittee shall maintain the following:
- (1) **Hourly Continuous** records of the temperature inside the afterburner chamber during normal operation when venting to the atmosphere.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
37. A permit for the three (3) rotary furnaces contained in Section D.2 was issued on November 7, 1996. Although the validation letter was mailed in November 1997, two (2) of the rotary furnaces have not been constructed. Therefore, the following Construction Conditions have been added to Section D.2. The remainder of Section D.2 has been renumbered accordingly.

Construction Conditions [326 IAC 2-1-3.2]

General Construction Conditions

D.2.1 Pursuant to CP 093-5345-05064 issued November 7, 1996, this permit 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.

Effective Date of the Permit

- D.2.2 Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.
- D.2.3 Pursuant to 326 IAC 2-1-9(b) (Revocation of Permits) and CP 093-5345-05064 issued November 7, 1996, IDEM, OAM, may revoke this section of the approved permit if construction is not commenced within eighteen (18) months after receipt of this permit or if construction is suspended for a continuous period of one (1) year or more.
- D.2.4 Pursuant to CP 093-5345-05064 issued November 7, 1996, all requirements of these construction conditions shall remain in effect unless modified in a manner consistent with

procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

First Time Operation Permit

D.2.5 This document shall also become the first-time operation permit for the facilities under this section of this permit, pursuant to 326 IAC 2-1-4 (Operating Permits) when, prior to start of operation, the following requirements are met:

(a) The attached affidavit of construction shall be submitted to:

Indiana Department of Environmental Management
Permit Administration & Development Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

verifying that the facilities were constructed as proposed in the application. The facilities covered in this section of this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.

(b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.

(c) The Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this permit.

An affidavit of construction for the two (2) rotary furnaces, MF2 and MF3, not previously constructed, has been attached to the permit.

38. The aluminum scrap input to the three (3) rotary furnaces was previously limited so that PM emissions are less than 25 tons per year and PM₁₀ emissions are less than 15 tons per year. This would allow the furnaces, formerly permitted as portable, to relocate to any source, major or minor, in any county and have emissions less than that which would constitute a major modification to the source. Since the three (3) rotary furnaces are stationary, there is no need for the limit and Condition D.2.4 (Particulate Matter (PM)) part (d) requiring throughput records has been removed from this permit:

~~(d) Daily records shall be kept of the input of scrap aluminum to the three (3) rotary furnaces. The input shall be limited to a total of 17,798 tons per consecutive 12-month period.~~

39. Since Condition D.2.5 (Visible Emission Notations) part (e) (now D.2.11(e)) is an Emission Limitation, Condition D.2.8 has been added to the permit, and the remainder of Section D.2 has been renumbered accordingly. Condition D.2.8 states:

D.2.8 Opacity [326 IAC 2-1-3(i)(B)]

Pursuant to CP 093-5345-05064, issued November 7, 1996, visible emissions escaping the capture hood shall not exceed twenty percent (20%) opacity, taken as an average of three

(3) readings taken five (5) seconds apart.

Condition D.2.5(e) (now D.2.11(e)) has been revised as follows:

(e) Pursuant to CP 093-5345-05064, issued November 7, 1996, ~~visible emissions escaping the capture hood shall not exceed twenty percent (20%) opacity taken as an average of three (3) readings taken five (5) seconds apart.~~ **and Condition D.2.8, notations of visible emissions escaping the capture hood shall be performed.**

40. Since the insignificant hammermill and centrifuge are subject to the requirements of 326 IAC 6-3-2, Section A.3 has been revised as follows:

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)]

This stationary source **also includes the following insignificant activities which are specifically regulated**, as defined in 326 IAC 2-7-1(21): ~~that have applicable NSPS or NESHAP requirements.~~

(a) One (1) hammermill, identified as HM.

(b) One (1) centrifuge, identified as CT.

41. As a result of the changes indicated in item (41), Section D.5 has been added to the permit. Section D.5 appears as it does below. The potential to emit PM from the hammermill is 0.25 pounds per hour and potential to emit PM from the centrifuge is negligible. Therefore, the hammermill and centrifuge will comply with the requirements of 326 IAC 6-3-2.

SECTION D.5 FACILITY OPERATION CONDITIONS

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

(a) One (1) hammermill, identified as HM.

(b) One (1) centrifuge, identified as CT.

D.5.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

(a) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the hammermill shall each not exceed 15.8 pounds per hour when operating at a process weight rate of 15,000 pounds per hour.

(b) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the centrifuge shall each not exceed 7.58 pounds per hour when operating at a process weight rate of 5,000 pounds per hour.

The pounds per hour limitations were calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

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

Compliance Determination Requirements

D.5.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.5.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

42. Conditions D.3.4, D.4.4 and D.2.7(a) (now D.2.10(a)) (Particulate Matter (PM)) have been revised as follows because the baghouses must operate at all times in order for the facilities to comply with 326 IAC 6-3-2:

The capture hood and baghouse (BH-2) for PM control shall be in operation at all times when the double drum magnetic separator is in operation ~~and exhausting to the outside atmosphere.~~

The capture hood and baghouse (BH-3) for PM control shall be in operation at all times when the conveyORIZED screen separator is in operation ~~and exhausting to the outside atmosphere.~~

Pursuant to CP 093-5345-05064, issued November 7, 1996, the capture hood and baghouses for PM control shall be in operation at all times when the corresponding rotary furnaces are in operation ~~and exhausting to the outside atmosphere.~~

43. Condition D.2.3 (now D.2.9) has been revised to require stack testing for the three (3) rotary furnaces. Condition D.2.3 (now D.2.9) has been revised as follows:

D.2.9 Testing Requirements [326 IAC 2-7-6(1),(6)]

~~Testing of this facility is not specifically required by this permit. However, if testing is required, compliance with the PM limit specified in Condition D.2.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.~~ **During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform PM testing utilizing Methods 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.**

44. Condition D.1.4 has been revised to require stack testing for the rotating drum dryer and afterburner. Condition D.1.4 has been revised as follows:

D.1.4 Testing Requirements [326 IAC 2-7-6(1),(6)]

~~Testing of this facility is not specifically required by this permit. However, if testing is required, compliance with the VOC and PM limits specified in Condition D.1.1 and D.1.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.~~

- (a) **During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform VOC testing utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.**
- (b) **During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform PM testing utilizing Methods 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.**

In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

45. Conditions D.3.3 and D.4.2 (Testing Requirements) have been changed as follows:

D.(3/4).3Testing Requirements [326 IAC 2-7-6(1),(6)]

During the period between **30 and 36 months** after issuance of this permit, the Permittee shall perform PM testing utilizing **Methods 5 or 17 (40 CFR 60, Appendix A)**, or other methods as approved by the Commissioner. This test shall be repeated at least once every **five (5) years** from the date of this valid compliance demonstration. **In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.**

46. Conditions D.1.6(a), D.2.5(a) (now D.2.11(a)), D.3.5(a), and D.4.5(a) (Visible Emission Notations) have been changed as follows:

- (a) Daily visible emission notations of the dryer and afterburner stack (DR-1) exhaust shall be performed during normal daylight operations **when exhausting to the atmosphere**. A trained employee shall record whether emissions are normal or abnormal.
- (a) Daily visible emission notations of the baghouse stacks (BH-4 and BH-M6) exhaust shall be performed during normal daylight operations **when exhausting to the atmosphere**. A trained employee shall record whether emissions are normal or abnormal.
- (a) Daily visible emission notations of the baghouse stack (BH-3) exhaust shall be performed during normal daylight operations **when exhausting to the atmosphere**. A trained employee shall record whether emissions are normal or abnormal.
- (a) Daily visible emission notations of the baghouse stack (BH-2) exhaust shall be performed during normal daylight operations **when exhausting to the atmosphere**. A trained employee shall record whether emissions are normal or abnormal.

47. Conditions D.2.7 (now D.2.13), D.3.7, and D.4.7 (Broken Bag or Failure Detection) have been changed as follows:

Broken Bag or ~~Failure~~ **Failed Bag** Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. **Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).**
- (b) ~~Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion.~~ **For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).**

48. The Opacity rule, 326 IAC 5-1, was revised on November 1, 1998. As a result, the following changes were made to Condition C.2 (now C.3) of this permit:

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (~~Visible Emissions~~ **Opacity** Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), ~~visible emissions~~ opacity shall meet the following, unless otherwise stated in this permit:

- (a) ~~Visible emissions~~ **Opacity** shall not exceed an average of forty percent (40%) ~~opacity in twenty-four (24) consecutive readings, any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.~~
- (b) ~~Visible emissions~~ **Opacity** shall not exceed sixty percent (60%) ~~opacity~~ 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.

49. Baghouse inspections are required for the three (3) rotary furnaces, one (1) conveyorized screen separator, and one (1) double drum magnetic separator. Therefore, Conditions D.2.14, D.3.8, and D.4.8 have been added to the permit and the remainder of Sections D.2, D.3, and D.4 have been renumbered accordingly.

D.2.14 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the three (3) rotary furnaces when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

D.3.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the one (1) conveyORIZED screen separator when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

D.4.8 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the one (1) double drum magnetic separator when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

50. As a result of the additions indicated in change (49) and previous changes, Conditions D.2.11 (now D.2.14), D.3.8 (now D.3.9) and D.4.8 (now D.4.9) have been revised as follows:

D.2.15 Record Keeping Requirements

- (a) To document compliance with Condition ~~D.2.5~~ **D.2.11**, the Permittee shall maintain records of daily visible emission notations of the baghouse stacks (BH-4 and BH-M6) exhaust.
- (b) To document compliance with Condition ~~D.2.6~~ **D.2.12**, the Permittee shall maintain the following:
- (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Records of inlet temperature sensor alarms.
 - (3) Documentation of all response steps implemented, per event.
 - (4) Operation and preventive maintenance logs, including work purchase orders, shall be maintained.
 - (5) Quality Assurance/Quality Control (QA/QC) procedures.
 - (6) Operator standard operating procedures (SOP).
 - (7) Manufacturer's specifications or its equivalent.
 - (8) Equipment "troubleshooting" contingency plan.
 - (9) Documentation of the dates vents are redirected.

(c) To document compliance with Condition D.2.14, the Permittee shall maintain records of the results of the inspections required under Condition D.2.14 and the dates the vents are redirected.

~~(e)~~**(d)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.9 Record Keeping Requirements

(a) To document compliance with Condition D.3.5, the Permittee shall maintain records of daily visible emission notations of the baghouse stack (BH-3) exhaust.

(b) To document compliance with Condition D.3.6, the Permittee shall maintain the following:

(1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:

(A) Inlet and outlet differential static pressure; and

(B) Cleaning cycle: frequency and differential pressure.

(2) Documentation of all response steps implemented, per event.

(3) Operation and preventive maintenance logs, including work purchase orders, shall be maintained.

(4) Quality Assurance/Quality Control (QA/QC) procedures.

(5) Operator standard operating procedures (SOP).

(6) Manufacturer's specifications or its equivalent.

(7) Equipment "troubleshooting" contingency plan.

(8) Documentation of the dates vents are redirected.

(c) To document compliance with Condition D.3.8, the Permittee shall maintain records of the results of the inspections required under Condition D.3.8 and the dates the vents are redirected.

~~(e)~~**(d)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.4.9 Record Keeping Requirements

(a) To document compliance with Condition D.4.5, the Permittee shall maintain records of daily visible emission notations of the baghouse stack (BH-2) exhaust.

(b) To document compliance with Condition D.4.6, the Permittee shall maintain the following:

- (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchase orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.4.8, the Permittee shall maintain records of the results of the inspections required under Condition D.4.8 and the dates the vents are redirected.**
- ~~(e)~~**(d)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Forms

1. In the Certification Form, the words "Emergency/Deviation Occurrence Reporting Form" have been deleted as shown in form as follows.
2. The Quarterly Compliance Report is now called the Semi-Annual Compliance Monitoring Report. The column marked "No Deviations" has been deleted and the language has been changed as indicated in the following pages.
3. The Emergency/Deviation Occurrence Reporting Form has had the phrase "Attach a signed certification to complete this report" deleted from the bottom of the second page. The changes are shown in the following pages.

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

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Mica Metals Incorporated
Source Address: Route 17, Peerless Road, Needmore, Indiana 47421
Mailing Address: P.O. Box 788, Bedford, Indiana 47421
Part 70 Permit No.: T 093-7641-05064

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:

- 9 Annual Compliance Certification Letter
- ~~9 Emergency/Deviation Occurrence Reporting Form~~
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 Other (specify) _____

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

Signature:

Printed Name:

Title/Position:

Date:

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

**PART 70 OPERATING PERMIT
 SEMI-ANNUAL COMPLIANCE MONITORING REPORT**

Source Name: Mica Metals Incorporated
 Source Address: Route 17, Peerless Road, Needmore, Indiana 47421
 Mailing Address: P.O. Box 788, Bedford, Indiana 47421
 Part 70 Permit No.: T 093-7641-05064

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

This report is an affirmation that the source has met all the **compliance monitoring** requirements stated in this permit. This report shall be submitted **semi-annually**. Any deviation from the **compliance monitoring** requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/ Deviation Occurrence Report. If no deviations occurred, please specify zero in the column marked "No Deviations" in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD. LIST EACH COMPLIANCE MONITORING REQUIREMENT EXISTING FOR THIS SOURCE:

| Compliance Monitoring Requirement (e.g. Permit Condition D.1.3) | Number of Deviations | Date of each Deviations | No Deviations |
|--|---------------------------------|------------------------------------|-------------------------------------|
| | | | |
| | | | |
| | | | |
| | | | |

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

Page 2 of 2

| |
|---|
| Date/Time Emergency/Deviation started: |
| Date/Time Emergency/Deviation was corrected: |
| Was the facility being properly operated at the time of the emergency/deviation? Y N Describe: |
| Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other: |
| Estimated amount of pollutant(s) emitted during emergency/deviation: |
| 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: _____

Attach a signed certification to complete this report.

On May 18, 1998, Susan Clark of Mica Metals, Inc. submitted comments on the proposed Part 70 Operating Permit. The comments are as follows:

Comment 1:

Paragraph D.2.6(b):

The exhaust gas temperature limit of 300 degrees Fahrenheit to the baghouse(s) (BH-4 and BH-6) has no bearing on the baghouse(s) ability to control visible emissions. The temperature of the exhaust gas can vary depending on the type of material used in making the bags. Some materials can withstand much higher temperatures and still function properly. We would like to eliminate this condition from the permit.

Response 1:

Condition D.2.6(b) (now D.2.12(b)) was Condition 21 on page 7 of 11 of CP 093-5345-05064, issued on November 7, 1996. However, since the exhaust gas temperature limit is not required to show compliance with any rule, the Permits and Compliance Branches of IDEM, OAM, have agreed to remove Condition D.2.6(b) from the permit as follows:

D.2.12 Parametric Monitoring

~~(a) — The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the three (3) rotary furnaces, at least once per working shift when any of the three (3) rotary furnaces exhausting to that baghouse are in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across baghouse BH-4 shall be maintained within the range of 5.0 and 8.0 inches of water and the pressure drop across baghouse BH-M6 shall be maintained within the range of 8.0 and 12.0 inches of water or ranges established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.~~

~~(b) — Pursuant to CP 093-5345-05064, issued November 7, 1996, the exhaust gas temperature entering the furnace baghouse(s) (BH-4 and BH-M6) shall not exceed 300 degrees Fahrenheit. Continuous instrumentation shall monitor the baghouse inlet temperature with alarms to alert the operator of potential temperature exceedances.~~

The instruments used for determining the pressure ~~and temperature~~ shall comply with Section C - Pressure Gauge and Temperature Sensor Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

On May 18, 1998, Sam Portanova of the Environmental Protection Agency submitted comments on the proposed Part 70 Operating Permit. The comments are as follows:

Comment 1:

Condition D.1.1 limits emissions from the rotating drum dryer to 43.5 tons per year. Annual limits are not considered enforceable as a practical matter. Therefore, this condition would not be sufficient to create a synthetic minor limit that would keep the source, for example, below the PSD

major source threshold.

Response 1:

Condition D.1.1 states the Best Available Control Technology (BACT) for this source, pursuant to 326 IAC 8-1-6. The afterburner is BACT for the rotating drum dryer. The limit of 43.5 tons per year is the potential to emit after controls by the afterburner. Condition D.1.1 has been revised as follows:

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

Pursuant to PC (47)-1789, issued January 12, 1990, the afterburner for VOC control is the best available control technology (BACT) for this facility and shall limit VOC emissions to no more than **9.93 pounds per hour, equivalent to** 43.5 tons per year.

Comment 2:

Condition D.2.3 states that the 326 IAC 5-1 opacity requirement is not federally enforceable. We have discussed this issue with IDEM in previous permits and have determined that this condition is part of the SIP and is federally enforceable. The language stating that this condition is not federally enforceable should be removed.

Response 2:

The permit has been checked to confirm that all language stating that 326 IAC 5-1 is not federally enforceable has been removed.

On June 2, 1998, Steven J. Lualdi, resident of Bloomington, submitted comments on the proposed Part 70 Operating Permit. The comments are as follows:

Comment 1:

It is obvious that the work done at Mica Metals, Incorporated in Lawrence County, is very damaging to the local environment and it creates terrible noise pollution and some light pollution.

If Mica Metals at this location is checked out by you, the EPA or whomever, my suggestion is that this should happen at night. During the night is when most of Mica Metals damage to us occurs. Thank you.

Response 1:

During the permit application review process, Mica Metals, Inc. was determined to be in compliance with all applicable rules. The Part 70 Operating Permit contains conditions that will ensure that Mica Metals, Inc. remains in compliance with these rules. Some permit conditions were created in past permits, while all conditions pertaining to the one (1) conveyORIZED screen separator and one (1) double drum magnetic separator are new conditions generated during this permit review as part of the Enhanced New Source Review process. Additional requirements were added to existing requirements as necessary to ensure compliance with the applicable rules.

There is an inspector assigned to this source. A schedule is generated of when the inspector will show up at the source. Inspector visits are unannounced. There will be enforcement actions if Mica Metals, Inc. is found to be in violation of any conditions in this Part 70 Operating Permit. Your suggested time of inspection is noted.

The IDEM, Office of Air Management (OAM), does not have jurisdiction over noise or light pollution.

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

**Technical Support Document (TSD) for a Part 70 Operating Permit
and Enhanced New Source Review**

Source Background and Description

| | |
|------------------------------|---|
| Source Name: | Mica Metals Incorporated |
| Source Location: | Route 17, Peerless Road, Needmore, Indiana 47421 |
| County: | Lawrence |
| SIC Code: | 3341 |
| Operation Permit No.: | T 093-7641-05064 |
| Permit Reviewer: | CarrieAnn Ortolani |

The Office of Air Management (OAM) has reviewed a Part 70 permit application from Mica Metals, Incorporated relating to the operation of an aluminum processing source. The three (3) natural gas-fired rotary furnaces at this source and the associated baghouses are portable. All other significant emission units are stationary. The unpermitted conveyORIZED screen separator constructed in 1996 and double drum magnetic separator constructed in 1992 will be permitted under enhanced new source review.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) custom natural gas-fired rotating drum dryer, identified as DR, with a maximum heat input capacity of 4.24 million British thermal units per hour, using an 8.5 million British thermal unit per hour afterburner as control, and exhausting to stack DR-1.
- (b) Two (2) portable natural gas-fired rotary furnaces, identified as MF1 and MF2, with maximum heat input capacities of 6.0 million British thermal units per hour, each, and maximum capacities of 3,000 pounds of aluminum per hour, each, using capture hoods and a baghouse (BH-4) as control, and exhausting to stack BH-4.
- (c) One (1) portable natural gas-fired rotary furnace, identified as MF3, with a maximum heat input capacity of 6.0 million British thermal units per hour, and a maximum capacity of 3,000 pounds of aluminum per hour, using a capture hood and a baghouse (BH-M6) as control, and exhausting to stack BH-M6.

Unpermitted Emission Units and Pollution Control Equipment

The source also consists of the following unpermitted facilities/units:

- (d) One (1) conveyORIZED screen separator, identified as SC, with a maximum capacity of 8,000 pounds of scrap aluminum per hour, using a capture hood and a baghouse (BH-3) as control, and exhausting to stack BH-3.
- (e) One (1) double drum magnetic separator, identified as SP, with a maximum capacity of 8,000 pounds of scrap aluminum per hour, using a capture hood and a baghouse (BH-2) as control, and exhausting to stack BH-2.

Emission Units and Pollution Control Equipment Under Enhanced New Source Review (ENSR)

Items (d) and (e) listed above are being reviewed under the ENSR process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired space heaters with heat input capacities equal to or less than ten million (10,000,000) British thermal units per hour; two (2) in plant - one (1) at 80,000 British thermal units per hour and one (1) at 100,000 British thermal units per hour, one (1) in office at 100,000 British thermal units per hour.
- (b) Ten (10) storage bins located outside, average storage capacity: 90,000 pounds each, typically contains large material (greater than one (1) cubic inch) waiting for processing through hammermill. Maximum transfer rate: 15,000 pounds per hour (total for all bins).
- (c) Plant Driveways, identified as DR.
- (d) One (1) parts washer, identified as PW.
- (e) Four (4) storage tanks, identified as ST, consisting of one (1) 250 gallon gasoline tank (ST02), one (1) 300 gallon waste oil tank (ST03), one (1) 550 gallon road fuel tank, and one (1) 550 gallon off road fuel tank.
- (f) One (1) hammermill, identified as HM.
- (g) One (1) centrifuge, identified as CT.

Existing Approvals

The source has been operating under the following approvals:

- (a) PC (47)-1789 for Plant ID 093-00014, issued on January 12, 1990.
- (b) CP 093-5345-05064, issued on November 7, 1996.

Enforcement Issue

- (a) IDEM is aware that the following equipment has been constructed and operated prior to receipt of the proper permit:
 - (1) One (1) conveyORIZED screen separator, identified as SC, with a maximum capacity of 8,000 pounds of scrap aluminum per hour, using a capture hood and a baghouse (BH-3) as control, and exhausting to stack BH-3.
 - (2) One (1) double drum magnetic separator, identified as SP, with a maximum capacity of 8,000 pounds of scrap aluminum per hour, using a capture hood and a baghouse (BH-2) as control, and exhausting to stack BH-2.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is

intended to satisfy the requirements of the construction permit rules.

(c) There are no other Enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit 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 administratively complete Part 70 permit application for the purposes of this review was received on December 12, 1996. Additional information was received on January 13, 1997, October 8, 1997 via telephone and October 15, 1997 via facsimile.

A notice of completeness letter was mailed to the source on January 8, 1997.

Emission Calculations

See pages 1 through 4 of Appendix A of this document for detailed emissions calculations.

Potential Emissions

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as "emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility."

| Pollutant | Potential Emissions (tons/year) |
|------------------|------------------------------------|
| PM | greater than 250 |
| PM ₁₀ | greater than 250 |
| SO ₂ | less than 100 |
| VOC | less than 100 |
| CO | less than 100 |
| NO _x | less than 100 |

Note: For the purpose of determining Title V applicability for particulates, PM₁₀, not PM, is the regulated pollutant in consideration.

| HAPs | Potential Emissions (tons/year) |
|-----------------|------------------------------------|
| individual HAPs | less than 10 |
| TOTAL | less than 25 |

- (a) The potential emissions (as defined in the Indiana Rule) of PM₁₀ are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Fugitive Emissions
 Since this type of operation is one of the 28 listed source categories under 326 IAC 2-2, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects 1995 emission data.

| Pollutant | Actual Emissions (tons/year) |
|------------------|---------------------------------|
| PM | 13.1 |
| PM ₁₀ | 13.2 |
| SO ₂ | 11.3 |
| VOC | 5.40 |
| CO | 0.420 |
| HAPs | negligible |
| NO _x | 2.51 |

Limited Potential to Emit

The table below summarizes the total limited potential to emit of the significant emission units.

| Process/facility | Limited Potential to Emit (tons/year) | | | | | | |
|----------------------------|--|------------------|-----------------|------|-------|-----------------|------------|
| | PM | PM ₁₀ | SO ₂ | VOC | CO | NO _x | HAPs |
| Dryer and afterburner (DR) | 0.669 (84.0) | 0.669 (84.0) | 90.5 | 43.5 | 1.17 | 7.21 | negligible |
| Three (3) furnaces | 24.0 | 14.0 | 0.442 | 3.18 | 1.66 | 8.08 | negligible |
| Screeener | 37.9 (45.5) | 37.9 (45.5) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Separator | 37.6 (45.5) | 37.6 (45.5) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insignificant Activities | 3.07 | 3.07 | 0.001 | 4.79 | 0.013 | 0.115 | 0.00 |
| Total Emissions | 104 (202) | 104 (202) | 90.9 | 51.5 | 2.84 | 15.4 | negligible |

- (a) The values in the table represent potential emissions after controls and as limited. The values in parenthesis represent the allowable emission rate based on applicable rules.
- (b) The PM allowable emissions are based on 326 IAC 6-1-2 (Nonattainment area particulate limitations) for the three (3) portable rotary furnaces. The three (3) portable rotary furnaces

are limited by 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) to 24 tons per year of PM and 14 tons per year of PM₁₀ so that they may relocate to any source in any county except those counties considered severe nonattainment for ozone (specifically Lake and Porter Counties). These limits are more stringent than the allowable emission limit based on 326 IAC 6-1-2 converted to a yearly limit. Therefore, only the 326 IAC 2-2 and 326 IAC 2-3 limit is included in this table for the three (3) portable furnaces.

- (c) The PM allowable emissions for all stationary facilities are based on 326 IAC 6-3-2 (Process Operations).
- (d) Attached Tables 1 through 4 summarize the permit conditions and requirements.

County Attainment Status

The source is located in Lawrence County.

| Pollutant | Status |
|------------------|------------|
| TSP | attainment |
| PM ₁₀ | attainment |
| SO ₂ | attainment |
| NO ₂ | attainment |
| Ozone | attainment |
| CO | attainment |
| Lead | attainment |

- (a) Volatile organic compounds (VOC) and oxides of nitrogen are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Lawrence County has been designated as attainment or unclassifiable for ozone.
- (b) The three (3) portable furnaces are not permitted to relocate to a county that is severe non-attainment for ozone.

Portable Source

- (a) Initial Location
This is a stationary source, but the three (3) rotary furnaces and the associated baghouses located at this source are portable.
- (b) PSD and Emission Offset Requirements
The emissions from the portable facilities were reviewed both under the requirements of the Prevention of Significant Deterioration (PSD), 326 IAC 2-2, 40 CFR 52.21, and Emission Offset, 326 IAC 2-3.

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

- (1) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (2) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (326 IAC 12) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

Since this type of operation is one of the 28 listed source categories under 326 IAC 2-2, the permitted facilities have potential emissions after controls and limits greater than what would constitute a major source pursuant to 326 IAC 2-2, PSD (100 tons per year of PM and PM₁₀). The addition of the conveyORIZED screen separator (SC) in 1992 and the double drum magnetic separator in 1996 represent minor modifications to an existing minor source and as such do not require a PSD review. This source did not undergo PSD review, because the source became a major source due to the latest modification. Future modifications to this source will be subject to the PSD significance levels. Any modifications with emissions after controls exceeding the PSD significance levels will be subject to PSD review.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than one hundred (100) tons per year of PM₁₀. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by July 1 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 5-1-2 (Visible Emissions Limitations)

Visible emissions shall meet the following, except as indicated under State Rule Applicability for individual facilities and in Section D of the permit:

- (a) Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,

- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

This aluminum processing source is a source of fugitive particulate matter and is subject to 326 IAC 6-5. The source submitted a Fugitive Emission Control Plan for the source with their Part 70 permit application on December 12, 1996. The control plan includes:

- (a) furnaces being located indoors when possible.
- (b) furnaces being inclosed on three sides and the hoods being enclosed on three sides when the furnaces must be located outside.
- (c) fugitive emissions from the unpaved roads and parking areas being treated with water or a suitable and effective dust suppressant approved by the commissioner as needed.
- (d) aggregate piles being relocated indoors where possible.
- (e) areas around the aggregate piles being cleaned and swept as needed.
- (f) vehicle transfer distance between furnaces and piles being minimized.
- (g) the application of water or a suitable and effective chemical dust suppressants being used to minimize visible emissions from the aggregate piles where necessary.
- (h) the frequency, if applicable, of water or chemical spray being as needed.

State Rule Applicability - Individual Facilities

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

- (a) Pursuant to CP 093-5345-05064, issued November 7, 1996, the PM and PM₁₀ emissions from the three (3) rotary furnaces will be limited so that the facilities may relocate to any major or minor source in any county except those considered severe nonattainment for ozone (specifically Lake and Porter Counties). The input of scrap aluminum to the three (3) rotary furnaces at any source location will be limited to 17,798 tons per 365 day period rolled on a daily basis. This production limitation combined with operating the associated capture hoods and baghouses at all times when the three (3) rotary furnaces are in operation is equivalent to PM₁₀ emissions of 14.0 tons per 365 day period and PM emissions of less than 24.0 tons per 365 day period. The fugitive PM emissions from the combination of the three (3) rotary furnaces are limited to 11.6 tons per year and the baghouse emissions are limited to 11.5 tons per year. The capture hoods shall either be enclosed on three sides (if the furnace is located outdoors), or be located with the furnace inside a building to minimize drafts. Also, the waste cross cooling area shall either be covered and piped to a baghouse, or be located inside a building to minimize emissions. See page 4 of 4 of TSD Appendix A for detailed calculations.
- (b) The stationary facilities being permitted under enhanced new source review are minor modifications to a minor source.

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to CP 093-5345-05064, issued November 7, 1996, the visible emissions from the three (3) portable rotary furnaces shall meet the following:

- (a) Visible emissions shall not exceed an average of thirty percent (30%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4.
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

326 IAC 6-1-2 (Nonattainment area particulate limitations)

Pursuant to CP 093-5345-05064, issued November 7, 1996, the particulate matter (PM) emissions from the three (3) portable rotary furnaces will be limited 0.03 grains per dry standard cubic foot. Since the potential emissions after controls are 0.012 grains per dry standard cubic foot for BH-4 and 0.013 grains per dry standard cubic foot for BH-M6, the three (3) portable rotary furnaces will comply with this rule. Compliance will be demonstrated by operating the capture hoods and baghouses at all times when the associated furnaces are in operation. See page 4 of 4 of TSD Appendix A for detailed calculations.

326 IAC 6-3-2 (Process Operations)

- (a) The particulate matter (PM) emissions from the dryer (DR) and afterburner are limited to no more than 19.2 pounds per hour. Since potential PM emissions are 0.153 pounds per hour, the dryer and afterburner will comply with this rule.
- (b) The particulate matter (PM) emissions from the conveyORIZED screen separator and the double drum magnetic separator will be limited to no more than 10.4 pounds per hour, each. Since potential emissions after controls are 8.65 pounds per hour from the conveyORIZED screen separator and 8.57 pounds per hour from the double drum magnetic separator, including fugitive emissions, the conveyORIZED screen separator and the double drum magnetic separator will comply with this rule. Compliance will be demonstrated by operating the capture hoods along with baghouse BH-3 at all times when the conveyORIZED screen separator is in operation and baghouse BH-2 at all times when the double drum magnetic separator is in operation. The capture hoods are located indoors.
- (c) The particulate matter (PM) emissions from the insignificant activities of the hammermill and centrifuge will be limited to no more than 15.8 pounds per hour and 7.58 pounds per hour, respectively.

The PM emission limitations for process weight rates up to sixty thousand (60,000) pounds per hour are calculated on page 4 of 4 of TSD Appendix A using the following equation:

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

326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations)

Since the dryer (DR) and afterburner have potential emissions of SO₂ greater than twenty-five (25) tons per year, 326 IAC 7-1.1-1 applies. The SO₂ emissions from fuel combustion are not greater than twenty-five (25) tons per year and Lawrence County does not have specific SO₂ emission standards. Therefore, no Sulfur Dioxide Emission Limitations are applicable to this source.

326 IAC 8-1-6 (BACT)

Pursuant to PC (47) -1789, issued on January 12, 1990, the afterburner for VOC control will be BACT for the dryer facility. The afterburner will limit VOC emissions to 43.5 tons per year. Compliance will be demonstrated by operating the afterburner at all times when the dryer is in operation.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

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

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

- (a) The natural gas-fired turning dryer with the natural gas-fired afterburner as control has applicable compliance monitoring conditions as specified below:
 - (1) Daily visible emissions notations of the dryer and afterburner exhaust shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. 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. 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. 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. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

- (2) Pursuant to PC (47)-1789, issued January 12, 1990, the Permittee shall monitor and record the chamber temperature of the afterburner controlling the turning dryer every hour while the dryer is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the temperature shall be no less than 1400 degrees Fahrenheit. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.
- (3) Pursuant to CP 093-5345-05064, issued November 7, 1996, stack emissions from the dryer/afterburner shall be monitored via a closed circuit TV Continuous Surveillance system. The Surveillance system shall be operated a minimum of ninety-five percent (95%) of the total possible hours of any thirty (30) day period, and each videotape shall be preserved for inspection for at least thirty (30) days from the date of taping. Emissions recorded on these tapes shall not be used by or against Mica Metals, Incorporated in any enforcement action pertaining to visible emissions (326 IAC 5-1-2, Opacity Limitations).

These monitoring conditions are necessary because the afterburner must operate properly to ensure compliance with 326 IAC 8-1-6 (BACT) and 326 IAC 2-7 (Part 70).

- (b) The three (3) portable rotary furnaces have applicable compliance monitoring conditions as specified below:
 - (1) Daily visible emissions notations of the exhaust from the baghouses controlling the three (3) portable rotary furnaces (BH-4 and BH-M6) shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. 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. 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. 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. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.
 - (2) Pursuant to CP 093-5345-05064, issued November 7, 1996, visible emissions escaping the capture hood shall not exceed twenty percent (20%) opacity taken by Method 9 as an average opacity of three readings taken five (5) seconds apart.
 - (3) The Permittee shall record the total static pressure drop across each baghouse (BH-4 and BH-M6) controlling the (3) portable rotary furnaces, at least once per shift when the (3) portable rotary furnaces are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across baghouse (BH-4) shall be maintained within the range of 5.0 to 8.0 inches of water and the pressure drop across baghouse (BH-M6) shall be maintained within the range of 8.0 to 12.0 inches of water or ranges established during the latest stack tests. The Compliance Response Plan for these units shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

- (3) Pursuant to CP 093-5345-05064, issued November 7, 1996, continuous instrumentation shall monitor the baghouse inlet temperature with alarms to alert the operator of potential temperature exceedances. The exhaust gas temperature entering either of the furnace baghouses (BH-4 and BH-M6) shall not exceed 300 degrees Fahrenheit.

These monitoring conditions are necessary because the baghouses (BH-4 and BH-M6) must operate properly to ensure compliance with 326 IAC 2-2 and 2-3 (PSD and Emission Offset), 326 IAC 6-1-3 (PM limitations) and 326 IAC 2-7 (Part 70).

- (c) The one (1) conveyORIZED screen separator has applicable compliance monitoring conditions as specified below:
 - (1) Daily visible emissions notations of the exhaust from the baghouse controlling the conveyORIZED screen separator (BH-3) shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. 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. 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. 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. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.
 - (2) The Permittee shall record the total static pressure drop across the baghouse (BH-3) controlling conveyORIZED screen separator, at least once per shift when the conveyORIZED screen separator is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across baghouse (BH-3) shall be maintained within the range of 0.5 to 5.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for these units shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.
- (d) The one (1) double drum magnetic separator has applicable compliance monitoring conditions as specified below:
 - (1) Daily visible emissions notations of the exhaust from the baghouses controlling the double drum magnetic separator (BH-2) shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. 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. 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. 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. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

- (2) The Permittee shall record the total static pressure drop across the baghouse (BH-2) controlling the double drum magnetic separator, at least once per shift when the double drum magnetic separator is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across baghouse (BH-2) shall be maintained within the range of 0.5 to 5.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for these units shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Part 70 Application Form GSD-08.

This source will emit levels of air toxics less than those which constitute a major source according to Section 112 of the 1990 Amendments to the Clean Air Act.

Conclusion

The operation of this aluminum processing source shall be subject to the conditions of the attached proposed **Part 70 Permit No. T 093-7641-05064**.

Table 1

Description of facility: One (1) dryer and afterburner
Max Rating: 12.72 MMBtu/hr total
Construction Date: 1990
Control Device (if any): afterburner
Stack/Vent ID: DR1

Facility class: 011 **Description:** One (1) dryer and afterburner

| EMISSION LIMITATIONS | | |
|--|---|--|
| Numerical Emission Limit: | 43.5 tons/yr of VOC | 19.2 lbs/hr of PM |
| Regulation/Citation: | 326 IAC 8-1-6 | 326 IAC 6-3-2 |
| Compliance Demonstration: | operate afterburner | N/A |
| PERFORMANCE TESTING | | |
| | N/A | N/A |
| Parameter/Pollutant to be Tested: | | |
| Testing Method/Analysis: | | |
| Testing Frequency/Schedule: | | |
| Submittal of Test Results: | | |
| COMPLIANCE MONITORING | | |
| Monitoring Description: | Chamber temperature readings | Visible Emissions |
| Monitoring Method: | | visual & closed circuit TV |
| Monitoring Regulation/Citation: | 326 IAC 2-7-6(1) & 326 IAC 2-7-5(1) | 326 IAC 2-7-6(1) & 326 IAC 2-7-5(1) |
| Monitoring Frequency: | hourly | daily & 95% of the total possible hours of any 30 day period |
| RECORD KEEPING | | |
| Parameter/Pollutant to be Recorded: | Chamber temperature of afterburner | visible emissions |
| Recording Frequency: | hourly | daily |
| REPORTING REQUIREMENTS | | |
| Information in Report: | summary of deviations | summary of deviations |
| Reporting Frequency/Submittal: | as necessary within 10 days of discovery of deviation | as necessary within 10 days of discovery of deviation |
| Additional Comments: | | |

Table 2

Description of facility: Three (3) portable natural gas-fired rotary furnaces
Max Rating: 6.0 MMBtu/hr each
Construction Date: 1996
Control Device (if any): hoods and baghouses (BH-4 and BH-M6)
Stack/Vent ID: BH-4 and BH-M6

Facility class: 038 **Description:** Three (3) portable natural gas-fired rotary furnaces

| EMISSION LIMITATIONS | | |
|--|---|---|
| Numerical Emission Limit: | 24.0 tons/yr of PM, total | 0.03 grains per dry standard cubic foot of outlet air |
| Regulation/Citation: | 326 IAC 2-2 and 2-3 | 326 IAC 6-1-2 |
| Compliance Demonstration: | Throughput limitation & operate capture hoods and baghouses | Operate capture hoods and baghouses |
| PERFORMANCE TESTING | | |
| | N/A | N/A |
| Parameter/Pollutant to be Tested: | | |
| Testing Method/Analysis: | | |
| Testing Frequency/Schedule: | | |
| Submittal of Test Results: | | |
| COMPLIANCE MONITORING | | |
| Monitoring Description: | Input of scrap aluminum to the furnaces | Visible Emissions, pressure drop across baghouses, baghouse inlet temperature |
| Monitoring Method: | | visible |
| Monitoring Regulation/Citation: | 326 IAC 2-7-6(1) & 326 IAC 2-7-5(1) | 326 IAC 2-7-6(1) & 326 IAC 2-7-5(1) |
| Monitoring Frequency: | daily | daily, once per shift & continuous |
| RECORD KEEPING | | |
| Parameter/Pollutant to be Recorded: | Input of scrap aluminum to the furnaces | Visible Emissions, pressure drop across baghouses & temperature alarms |
| Recording Frequency: | daily | daily, once per shift & when alarm |
| REPORTING REQUIREMENTS | | |
| Information in Report: | daily input of scrap aluminum to the furnaces | summary of deviations |
| Reporting Frequency/Submittal: | quarterly | as necessary within 10 days of discovery of deviation |
| Additional Comments: | | |

Table 3

Description of facility: One (1) conveyORIZED screen separator
Max Rating: 8,000 pounds per hour process weight rate
Construction Date: 1996
Control Device (if any): hood and baghouse (BH-3)
Stack/Vent ID: BH-3

Facility class: 031 **Description:** One (1) conveyORIZED screen separator

| EMISSION LIMITATIONS | | |
|--|---|--|
| Numerical Emission Limit: | 10.4 lbs/hr of PM | |
| Regulation/Citation: | 326 IAC 6-3-2 | |
| Compliance Demonstration: | operate capture hood and baghouse | |
| PERFORMANCE TESTING | | |
| Parameter/Pollutant to be Tested: | PM/PM ₁₀ | |
| Testing Method/Analysis: | OAM approved method | |
| Testing Frequency/Schedule: | between 60 and 180 days of issuance | |
| Submittal of Test Results: | Within 45 days of testing | |
| COMPLIANCE MONITORING | | |
| Monitoring Description: | Visible emissions & pressure drop readings | |
| Monitoring Method: | visual | |
| Monitoring Regulation/Citation: | 326 IAC 2-7-6(1) & 326 IAC 2-7-5(1) | |
| Monitoring Frequency: | daily & at least once per shift | |
| RECORD KEEPING | | |
| Parameter/Pollutant to be Recorded: | deviations | |
| Recording Frequency: | daily | |
| REPORTING REQUIREMENTS | | |
| Information in Report: | summary of deviations | |
| Reporting Frequency/Submittal: | as necessary within 10 days of discovery of deviation | |
| Additional Comments: | | |

Appendix A: Emission Calculations

Company Name: Mica Metals, Inc.
Address City IN Zip: Route 17, Peerless Road, Needmore, IN 47421
Title V: T093-7641
Plt ID: 093-05064
Reviewer: CarrieAnn Ortolani
Date: December 12, 1996

Natural Gas Combustion

Dryer (DR) and afterburner

Total Heat Input Capacity

MMBtu/hr

12.72

Potential Throughput

MMCF/yr

111.4

| Emission Factors in lb/MMCF | Pollutant | | | | | |
|--------------------------------|-----------|-------|-------|-------|-------|-------|
| | PM | PM10 | SO2 | NOx | VOC | CO |
| 12.0 | 12.0 | 12.0 | 0.6 | 100.0 | 5.3 | 21.0 |
| Potential Emissions in lbs/hr | 0.153 | 0.153 | 0.008 | 1.27 | 0.067 | 0.267 |
| Potential Emissions in tons/yr | 0.669 | 0.669 | 0.033 | 5.57 | 0.295 | 1.17 |

Drying/Burning Emissions from Contaminate Combustion

Control Efficiencies

| NOx | VOC |
|-------|-------|
| 89.1% | 95.5% |

Production rate (tons/hr)

6.88

SCC 3-04-001-09

| | SO2 | NOx | VOC |
|------------------------------------|------|------|------|
| Emission Factor (lbs/ton) | 3.00 | 0.5 | 32.0 |
| Emissions (lbs/hr) | 20.7 | 3.44 | 220 |
| Emissions (tons/yr) | 90.5 | 15.1 | 965 |
| Emissions after Controls (tons/yr) | 90.5 | 1.64 | 43.2 |

| | | | | | | |
|---|-------|-------|------|------|------|------|
| Total from drying/burning before controls (tons/yr) | 0.669 | 0.669 | 90.5 | 20.6 | 965 | 1.17 |
| Total from drying/burning after controls (tons/yr) | 0.669 | 0.669 | 90.5 | 7.21 | 43.5 | 1.17 |

Methodology

MMBtu = 1,000,000 Btu; MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors for NOx: uncontrolled = 100, Low NOx Burner = 17, Flue gas recirculation = 36

Emission Factors for CO: uncontrolled = 21, Low NOx Burner = 27, Flue gas recirculation = ND

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

Emission Factors for combustion from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-03-006-03

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

Emission Factors for Contaminate Combustion from SCC 3-04-001-09

Appendix A: Emission Calculations

Company Name: Mica Metals, Inc.
Address City IN Zip: Route 17, Peerless Road, Needmore, IN 47421 (these facilities are portable)
Title V: T093-7641
Plt ID: 093-05064
Reviewer: CarrieAnn Ortolani
Date: December 12, 1996

Natural Gas Combustion

Three (3) Rotary Furnaces @ 6 MMBtu/hr, each

| | | |
|---------------------------------------|---------------------------------|-----------------------|
| Total Heat Input Capacity MMBtu/hr | Potential Throughput MMCF/yr | PM Control Efficiency |
| 18.0 | 157.7 | 98.0% |

| Emission Factors in lb/MMCF | Pollutant | | | | | |
|---|-----------|-------|-------|-------|-------|------|
| | PM | PM10 | SO2 | NOx | VOC | CO |
| | 12.0 | 12.0 | 0.6 | 100.0 | 5.3 | 21.0 |
| Potential Emissions in tons/yr | 0.946 | 0.946 | 0.047 | 7.88 | 0.418 | 1.66 |
| Potential Emissions after Controls in tons/yr | 0.019 | 0.019 | 0.047 | 7.88 | 0.418 | 1.66 |

Secondary Aluminum Smelting Process

PM and PM-10 emissions from Melting and Pouring

| Unit ID | Baghouse Control Efficiency (%) | Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.) | Gas or Air Flow Rate (acfm.) | PM delivered to Baghouse (lbs/hr) | PM delivered to Baghouse (tons/yr) | PM Emission Rate after Controls (lb/hr) | PM Emission Rate after Controls (tons/yr) | PM-10 Emissions** after Controls (lbs/hr) | PM-10 Emissions** after Controls (tons/yr) |
|---------|---------------------------------|---|------------------------------|-----------------------------------|------------------------------------|---|---|---|--|
| BH-4 | 99.00% | 0.00905 | 50000 | 388 | 1699 | 3.88 | 17.0 | 2.35 | 10.28 |
| BH-M6 | 99.00% | 0.00905 | 25000 | 194 | 849 | 1.94 | 8.49 | 1.17 | 5.14 |

| Unit ID | Hood Capture Efficiency (%) | PM delivered to Baghouse (lbs/hr) | PM delivered to Baghouse (tons/yr) | PM emissions before Controls (lbs/hr) | PM emissions before Controls (tons/yr) | PM emissions fugitive (lbs/hr) | PM emissions fugitive (tons/yr) | PM-10 emissions** before Controls (lbs/hr) | PM-10 emissions** before Controls (tons/yr) | PM-10 emissions** fugitive (lbs/hr) | PM-10 emissions** fugitive (tons/yr) |
|---------|-----------------------------|-----------------------------------|------------------------------------|---------------------------------------|--|--------------------------------|---------------------------------|--|---|-------------------------------------|--------------------------------------|
| MF1 | 99.0% | 194 | 849 | 196 | 858 | 1.96 | 8.58 | 119 | 519 | 1.19 | 5.19 |
| MF2 | 99.0% | 194 | 849 | 196 | 858 | 1.96 | 8.58 | 119 | 519 | 1.19 | 5.19 |
| MF3 | 99.0% | 194 | 849 | 196 | 858 | 1.96 | 8.58 | 119 | 519 | 1.19 | 5.19 |

** The PM emissions calculated are equivalent to using the PM emission factor of 130.67 lbs of PM per ton of metal charged provided by the applicant.
 The PM-10 emission factor of 79.01 lbs of PM-10 per ton of metal charged was also provided by the applicant.
 Using these emission factors determined by mass balance calculations 60.5 % of the PM is PM-10 (79.01/130.67*100=60.5.)

Additional Pouring/Casting Emissions

| SCC 3-04-001-14 | Emission Factor (lbs/ton of metal charged) | | | Emissions (lbs/hr) | | | Emissions (tons/yr) | | |
|--------------------------------|--|------|------|--------------------|-------|------|---------------------|--------|--------|
| Tons of metal Charged per hour | SOx | NOx | VOC | SOx | NOx | VOC | SOx | NOx | VOC |
| 4.5 | 0.02 | 0.01 | 0.14 | 0.09 | 0.045 | 0.63 | 0.3942 | 0.1971 | 2.7594 |

Total Emissions from Smelting (tons/yr)

| | PM | PM-10 | SOx | NOx | VOC | CO |
|-----------------|------|-------|-------|------|------|------|
| Before Controls | 2575 | 1558 | 0.442 | 8.08 | 3.18 | 1.66 |
| After Controls | 51.2 | 31.0 | 0.442 | 8.08 | 3.18 | 1.66 |

Methodology

Combustion: MMBtu = 1,000,000 Btu; MMCF = 1,000,000 Cubic Feet of Gas
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
 Emission Factors from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-03-006-03
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 Baghouse: Baghouse Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (sq. ft.) ((cub. ft./min.)/sq. ft.) (60 min/hr) (lb/7000 grains)
 Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)
 PM Delivered to baghouse in lbs/hr = Emission Rate (after controls): (lbs/hr)/(1-control efficiency of baghouse)
 Emission Rate in tons/yr (before controls) = PM delivered to baghouse / (1- hood capture efficiency)
 Fugitive Emission Rate in tons/yr = Emission rate before controls (tons/yr) - PM delivered to the baghouse
 Emission Factors for Pouring/Casting from AP-42, SCC 3-04-001-14

Appendix A: Emission Calculations Baghouse Operations

Company Name: Mica Metals, Inc.
Address City IN Zip: Portable
Title V: T093-7641
Plt ID: 093-05064
Reviewer: CarrieAnn Ortolani
Date: December 12, 1996

| Unit ID | Process Rate (lbs/hr) | Emission Factor Before Controls (lbsPM/lb of metal) | Potential Emissions (lbs/hr) | Potential Emissions (tons/yr) | Capture Efficiency of Hood (%) | Fugitive PM Emissions (lb/hr) | Fugitive PM Emissions (tons/yr) |
|----------|-----------------------|---|------------------------------|-------------------------------|--------------------------------|-------------------------------|---------------------------------|
| SC, BH-3 | 8000 | 0.032060 | 256 | 1123 | 97.6% | 6.16 | 27.0 |
| SP, BH-2 | 8000 | 0.031750 | 254 | 1113 | 97.6% | 6.10 | 26.7 |

| Unit ID | PM delivered to Baghouse (lbs/hr) | Control Efficiency of Baghouse (%) | PM Emissions from Baghouse (lbs/hr) | PM Emissions from Baghouse (tons/yr) |
|----------|-----------------------------------|------------------------------------|-------------------------------------|--------------------------------------|
| SC, BH-3 | 250 | 99.0% | 2.50 | 11.0 |
| SP, BH-2 | 248 | 99.0% | 2.48 | 10.9 |

Emission Factors provided by the applicant. Stack tests will be required.
It is assumed that all PM is PM-10.

| Unit ID | Total PM Emissions (lbs/hr) | Total PM-10 Emissions (lbs/hr) | Total PM Emissions (tons/yr) | Total PM-10 Emissions (tons/yr) |
|--------------|-----------------------------|--------------------------------|------------------------------|---------------------------------|
| SC, BH-3 | 8.66 | 8.66 | 37.9 | 37.9 |
| SP, BH-2 | 8.58 | 8.58 | 37.6 | 37.6 |
| Total | 17.2 | 17.2 | 75.5 | 75.5 |

Methodology

Emission Rate in lbs/hr (before controls) = Emission factor (lbs PM/ lb metal)*Process rate (lbs metal/ hr)

Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Fugitive PM Emission Rate = Emission Rate (before controls)*(1-capture efficiency)

PM Emission Rate (after controls) = Emission Rate (before controls)*(1-control efficiency)

Appendix A: Emission Calculations

Company Name: Mica Metals, Inc.
Address City IN Zip: Route 17, Peerless Road, Needmore, IN 47421
Title V: T093-7641
Plt ID: 093-05064
Reviewer: CarrieAnn Ortolani
Date: December 12, 1996

Computation of Emission Limits

A. Limits Based on 326 IAC 6-3-2 (Process Operations)

| Unit ID | Unit Description | Process Rate (lbs/hr) | Process Weight Rate (tons/hr) | Allowable Emissions (lbs/hr) | Allowable Emissions (tons/yr) |
|---------|-----------------------|--------------------------|----------------------------------|---------------------------------|----------------------------------|
| DR | dryer and afterburner | 20000 | 10.0 | 19.2 | 84.0 |
| SC | screen separator | 8000 | 4.0 | 10.4 | 45.5 |
| SP | magnetic separator | 8000 | 4.0 | 10.4 | 45.5 |
| HM | hammermill | 15000 | 7.5 | 15.8 | 69.3 |
| CT | centrifuge | 5000 | 2.5 | 7.58 | 33.2 |

B. Limits for the three (3) natural gas-fired rotary furnaces

1. **326 IAC 2-2 and 326 IAC 2-3** Limit to relocate as part of a major or minor source in any county except those considered severe nonattainment for ozone = 24.0 tons per year of PM

| PM-10 limit (tons/yr) | PM limit (tons/yr) | PM limit with 60.5% PM is PM-10 (tons/yr) |
|--------------------------|-----------------------|---|
| 14.0 | 24.0 | 23.1 |

To meet limit PM must be no greater than 23.1 tons per year so that PM-10 is no greater than 14.0 tons per year

| PM limit (tons/yr) | Total Control Efficiency % | Emissions before Controls to meet limit (tons/yr) | Control Efficiency of Hoods % | Fugitive Emissions to meet Limit (tons/yr) | PM delivered to baghouse (tons/yr) | Control Efficiency of baghouse % | Baghouse Emissions to meet limit (tons/yr) |
|-----------------------|-------------------------------|--|----------------------------------|---|---------------------------------------|-------------------------------------|---|
| 23.1 | 98.01% | 1163 | 99.00% | 11.6 | 1151 | 99.00% | 11.5 |

Using the emission factor of 130.67 lbs of PM per ton of metal charged provided by the applicant:

| Emissions before Controls to meet limit (tons/yr) | Emission factor before Controls (lbs/ton) | Metal charged to meet Limit (tons/yr) |
|--|--|--|
| 1163 | 130.67 | 17798 |

2. **326 IAC 6-1-2**

| Emission Limit per baghouse (gr/dscf) | Temperature baghouse BH-4 (deg F) | Temperature baghouse BH-M6 (deg F) | Potential Emissions BH-4 (gr/acfm) | Potential Emissions BH-M6 (gr/acfm) | Potential Emissions BH-4 (gr/dscf) | Potential Emissions BH-M6 (gr/dscf) |
|--|--------------------------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|--|
| 0.03 | 250 | 300 | 0.00905 | 0.00905 | 0.012 | 0.013 |

Methodology

326 IAC 6-3-2:

$E = 4.10 * (P \wedge .67)$, where P=process weight rate in tons/hr and E= PM emission limit in lbs/hr

326 IAC 2-2 and 2-3:

Emissions before Controls to meet limit (tons/yr) = PM emission limit (tons/yr) / (1- control efficiency)

Input scrap aluminum limit (tons/yr) = Emissions before Controls to meet limit (tons/yr) * 2000 lbs/ton / Emission Factor (lbs PM/ton of metal)

326 IAC 6-1-2:

Potential Emissions (gr/dscf) = Potential Emissions (gr/acfm) * (460 deg F - Stack temperature)/528 deg F