



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: September 5, 2007

RE: Metaldyne Sintered Components / 079-23024-00014

FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of an initial Title V operating permit, permit renewal, or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

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



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Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

**Metaldyne Sintered Components
3100 North State Highway 3
North Vernon, Indiana 47265**

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

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

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 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.

Operation Permit No.: T 079-23024-00014	
Issued by/Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: September 5, 2007 Expiration Date: September 5, 2012

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SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a machine and forge metal powder connecting rods manufacturing source for the automotive industry.

Source Address:	3100 North State Highway 3, North Vernon, Indiana 47265
Mailing Address:	3100 North State Highway 3, North Vernon, Indiana 47265
General Source Phone Number:	812-346-1566
SIC Code:	3462
County Location:	Jennings
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source under PSD rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) Two (2) 600-amp electric delube furnaces, identified as A1 and A2, installed in 1994, each equipped with one (1) natural gas-fired flame curtain for methane control, rated at 0.002 million British thermal units per hour, exhausted through Stacks AS1 and AS2, capacity 1,440 pounds of carbon steel rods per hour, each.
- (b) Two (2) 600-amp electric delube furnaces, identified as A3 and A4, installed in 1994, each equipped with one (1) natural gas-fired flame curtain for methane control, rated at 0.002 million British thermal units per hour, exhausted through Stacks AS3 and AS4, capacity: 1,440 pounds of carbon steel rods per hour, each.
- (c) One (1) 900-amp electric delube furnace, identified as A5, installed in 1999, equipped with a natural gas-fired flame curtain for methane control, rated at 0.002 million British thermal units per hour, exhausted through Stack AS5, capacity: 2,515 pounds of carbon steel rods per hour.
- (d) Eight (8) 330-amp electric rotary hearth furnaces, identified as B1 through B8, exhausted through Stacks BS1 through BS6, B7, and B8; B1 through B4 were installed in 1994, B5 and B6 were installed in 1996, and B7 and B8 were installed in 1997, capacity: 1,050 pounds of carbon steel rods per hour, each.
- (e) Two (2) 330-amp electric rotary hearth furnaces, identified as B15 and B16, installed in 1999, exhausted through Stacks BS15 and BS16, capacity: 1,333 pounds of carbon steel rods per hour, each.
- (f) Four (4) deflash machines, identified as SD1, SD2, SD3 and SD4, installed in 1999, each equipped with a dust collector, capacity: 1,000 pounds of carbon steel rods per hour, each.

- (g) Two (2) shot peen machines, identified as SP1 and SP2, installed in 1994, equipped with two (2) baghouses, identified as SPD1 and SPD2, exhausting inside, with a throughput of 2,000 pounds of carbon steel rods per hour, each, capacity: 144,000 pounds of steel shot per hour, each.
- (h) Two (2) shot peen machines, identified as SP3 and SP4, installed in 1995, equipped with two (2) baghouses, identified as SPD3 and SPD4, exhausting inside, with a throughput of 2,000 pounds of carbon steel rods per hour, each, capacity: 144,000 pounds of steel shot per hour, each.
- (i) One (1) shot peen machine, identified as SP5, installed in 1999, equipped with two (2) baghouses, identified as SPD5 and SPD6, exhausting inside, with a throughput of 4,800 pounds of carbon steel rods per hour, capacity: 144,000 pounds of steel shot per hour.

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) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, consisting of the following:
 - (1) One (1) maintenance parts washer, identified as Washer 1, installed in 1994 [326 IAC 8-3-5] [326 IAC 8-3-2].
 - (2) One (1) parts washer, identified as PWM1, installed in 2005, washing parts at a maximum process rate of 720 parts per hour, with all emissions exhausted through the parts washer stack [326 IAC 8-3-5] [326 IAC 8-3-2].
- (b) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].
- (c) One (1) quality control Wheelabator shot blaster with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, equipped with a dust collector, maximum capacity: 6,000 pounds of steel shot per hour [326 IAC 6-3-2] [326 IAC 2-2].
- (d) Twelve (12) rework sanders, identified as G1 through G12, installed in 1999, with particulate emissions controlled by eleven (11) downdraft tables, exhausting inside, with a grain loading of less than 0.03 grains per actual cubic foot and an air flow of less or equal to 4,000 actual cubic feet per minute, each, capacity: 500 pounds of carbon steel rods per hour, each [326 IAC 6-3-2] [326 IAC 2-2].

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 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, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]

- (a) This permit, T 079-23024-00014, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability [326 IAC 2-7-7]

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

B.5 Severability [326 IAC 2-7-5(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.6 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.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

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

B.9 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. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, 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, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as

defined by 326 IAC 2-7-1(34).

B.10 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 maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
 - (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules

from 326 IAC, referenced 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 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) 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, IDEM, OAQ 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) 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. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) 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) 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) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T 079-23024-00014 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or

(3) deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 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.15 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 Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 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 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

(1) That this permit contains a material mistake.

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

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

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

as practicable. [326 IAC 2-7-9(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, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. 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). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12] [40 CFR 72]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

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

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

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request

for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11 (c)(3)]

B.19 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) 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.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

- (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 preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

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

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

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

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

(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). 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 is not considered an application form, report or compliance certification. Therefore, the notification 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 emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(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, OAQ, 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.21 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

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

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

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

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

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

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)] [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.25 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this 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.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

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

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

C.6 Stack Height [326 IAC 1-7]

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

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or

before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(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 Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification 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 applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana 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 to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.8 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 any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR

75, or other procedures approved by IDEM, OAQ.

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

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

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for

new emission units or emission units added through a source modification shall be implemented when operation begins.

C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

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

C.13 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 prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on April 28, 2006.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.
[326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.16 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 response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

C.17 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) Pursuant to 326 IAC 2-6-3(b)(3), starting in 2006 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
 - (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
 - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

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

- (b) The emission statement required by this permit shall be considered timely if the date post-marked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (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 Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

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

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)]: Deflash Machines

- (f) Four (4) deflash machines, identified as SD1, SD2, SD3 and SD4, installed in 1999, each equipped with a dust collector, capacity: 1,000 pounds of carbon steel rods per hour, each.

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

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

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the four (4) deflash machines, identified as SD1 through SD4, shall not exceed 2.58 pounds per hour, each, when operating at process weight rate of 1,000 pounds (0.500 tons) per hour.

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

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

D.1.2 PSD Minor Limit [326 IAC 2-2]

The PM/PM₁₀ emissions from the four (4) deflash machines, identified as SD1 through SD4, shall be limited to 2.58 pounds per hour, each. Compliance with these limitations in combination with Conditions D.2.2, D.3.2, and potential PM/PM₁₀ emissions from insignificant activities shall limit source-wide PM/PM₁₀ emissions to less than two hundred fifty (250) tons per year and render the requirements of 326 IAC 2-2, PSD, not applicable.

SECTION D.2 FACILITY OPERATION CONDITIONS

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

- (g) Two (2) shot peen machines, identified as SP1 and SP2, installed in 1994, equipped with two (2) baghouses, identified as SPD1 and SPD2, exhausting inside, with a throughput of 2,000 pounds of carbon steel rods per hour, each, capacity: 144,000 pounds of steel shot per hour, each.
- (h) Two (2) shot peen machines, identified as SP3 and SP4, installed in 1995, equipped with two (2) baghouses, identified as SPD3 and SPD4, exhausting inside, with a throughput of 2,000 pounds of carbon steel rods per hour, each, capacity: 144,000 pounds of steel shot per hour, each.
- (i) One (1) shot peen machine, identified as SP5, installed in 1999, equipped with two (2) baghouses, identified as SPD5 and SPD6, exhausting inside, with a throughput of 4,800 pounds of carbon steel rods per hour, capacity: 144,000 pounds of steel shot per hour.

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

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

D.2.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the pounds per hour limitation when operating at the stated process weight rates calculated using the following equation:

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

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

Emission Unit (baghouse)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)
Two (2) shot peen machines, identified as SP1 and SP2 (SPD1 and SPD2)	1.00, each	4.10, each
Two (2) shot peen machines, identified as SP3 and SP4 (SPD3 and SPD4)	1.00, each	4.10, each
One (1) shot peen machine, identified as SP5 (SPD5 and SPD6)	2.40	7.37

D.2.2 PSD Minor Limit [326 IAC 2-2]

- (a) The PM and PM₁₀ emissions from the two (2) shot peen machines, identified as SP1 and SP2, the two (2) shot peen machines, identified as SP3 and SP4, and the one (1) shot peen machine, identified as SP5, shall be limited to the values stated below:

- (1) PM and PM₁₀ emissions from the two (2) shot peen machines, identified as SP1 and SP2, shall be limited to 4.10 pounds per hour, each.
 - (2) PM and PM₁₀ emissions from the two (2) shot peen machines, identified as SP3 and SP4, shall be limited to 4.10 pounds per hour, each.
 - (3) PM and PM₁₀ emissions from the one (1) shot peen machine, identified as SP5, shall be limited to 7.37 pounds per hour.
- (b) Compliance with these limitations in combination with Conditions D.1.2, D.3.2, and potential PM/PM₁₀ emissions from insignificant activities will keep source-wide PM/PM₁₀ emissions to less than two-hundred and fifty (250) tons per year and shall render the requirements of 326 IAC 2-2, PSD, not applicable.

D.2.3 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 the two (2) shot peen machines, identified as SP1 and SP2, the two (2) shot peen machines, identified as SP3 and SP4, and the one (1) shot peen machine, identified as SP5, and their baghouses.

Compliance Determination Requirements

D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within 180 days after issuance of this Part 70 permit, T 079-23024-00014, in order to demonstrate compliance with Condition D.2.1, the Permittee shall perform PM and PM₁₀ testing for the one (1) shot peen machine, identified as SP5, utilizing 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. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

D.2.5 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Conditions D.2.1 and D.2.2, the baghouses for particulate control shall be in operation and control emissions from the two (2) shot peen machines, identified as SP1 and SP2, the two (2) shot peen machines, identified as SP3 and SP4, and the one (1) shot peen machine, identified as SP5 at all times that the emission units are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Assurance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR 64]

D.2.6 Broken or Failed Bag Detection

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

ing of the material in the emission units. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

SECTION D.3 FACILITY OPERATION CONDITIONS

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

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, consisting of the following:
 - (1) One (1) maintenance parts washer, identified as Washer 1, installed in 1994 [326 IAC 8-3-5] [326 IAC 8-3-2].
 - (2) One (1) parts washer, identified as PWM1, installed in 2005, washing parts at a maximum process rate of 720 parts per hour, with all emissions exhausted through the parts washer stack [326 IAC 8-3-5] [326 IAC 8-3-2].
- (c) One (1) quality control Wheelabator shot blaster with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, equipped with a dust collector, maximum capacity: 6,000 pounds of steel shot per hour. [326 IAC 6-3-2] [326 IAC 2-2]
- (d) Twelve (12) rework sanders, identified as G1 through G12, installed in 1999, with particulate emissions controlled by eleven (11) downdraft tables, exhausting inside, with a grain loading of less than 0.03 grains per dry actual cubic foot and a flow rate of less than 4,000 actual cubic feet per minute, each, capacity: 500 pounds of carbon steel rods per hour, each. [326 IAC 6-3-2] [326 IAC 2-2]

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

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

D.3.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the pounds per hour limitation when operating at the stated process weight rates calculated using the following equation:

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

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

Emission Unit (baghouse)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)
Twelve (12) rework sanders, identified as G1 through G12 (DC 1 through DC 11)	0.250, each	1.62, each
One (1) quality control Wheelabator shotblaster (Dust Collector)	3.00	8.56

D.3.2 PSD Minor Limit [326 IAC 2-2]

PM and PM₁₀ emissions from the eleven (11) downdraft tables, identified as DC1 through DC11, which control emissions from the twelve (12) rework sanders, identified as G1 through G12, shall be limited to 0.129 pounds per hour, each.

Compliance with these limitations in combination with Conditions D.1.2, D.2.2, and potential PM/PM₁₀ emissions from the Quality Control Wheelabrator shotblaster and other insignificant activities shall limit source-wide PM/PM₁₀ emissions to less than two hundred fifty (250) tons per year and shall render the requirements of 326 IAC 2-2, PSD, not applicable.

D.3.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.3.4 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:
 - (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

Compliance Determination Requirements

D.3.5 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Conditions D.3.1 and D.3.2, the eleven (11) downdraft tables for particulate control, identified as DC1 through DC11, shall be in operation and control emissions from the twelve (12) rework sanders, identified as G1 through G12, at all times when the emission units are in operation.
- (b) In order to comply with Conditions D.3.1 and D.3.2, the dust collector for particulate control shall be in operation and control emissions from the one (1) quality control Wheelabator shotblaster at all times when the emission unit is in operation.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Metaldyne Sintered Components
Source Address: 3100 North State Highway 3, North Vernon, Indiana 47265
Mailing Address: 3100 North State Highway 3, North Vernon, Indiana 47265
Part 70 Permit No.: T 079-23024-00014

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Metaldyne Sintered Components
Source Address: 3100 North State Highway 3, North Vernon, Indiana 47265
Mailing Address: 3100 North State Highway 3, North Vernon, Indiana 47265
Part 70 Permit No.: T 079-23024-00014

This form consists of 2 pages

Page 1 of 2

<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) C The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and C The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.
--

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

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

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

Page 2 of 2

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

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

A certification is not required for this report.

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

**PART 70 OPERATING PERMIT
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Metaldyne Sintered Components
 Source Address: 3100 North State Highway 3, North Vernon, Indiana 47265
 Mailing Address: 3100 North State Highway 3, North Vernon, Indiana 47265
 Part 70 Permit No.: T 079-23024-00014

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

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

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

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

Source Name: Metaldyne Sintered Components
Source Location: 3100 North State Highway 3, North Vernon, IN 47265
County: Jennings
SIC Code: 3462
Operation Permit No.: T 079-23024-00014
Permit Reviewer: Michael A. Morrone/MES

On June 6, 2007, the Office of Air Quality (OAQ) had a notice published in the The Plain Dealer, North Vernon, Indiana, stating that Metaldyne Sintered Components had applied for a Part 70 Operating Permit Renewal to operate a machine and forge metal powder connecting rods manufacturing source for the automotive industry with baghouses and dust collectors. The notice also stated that OAQ 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.

On June 19, 2007, Lawrence Stapf and Stephen Hohman of August Mack Environmental, consultants for Metaldyne Sintered Components, submitted comments on the proposed Part 70 Operating Permit Renewal. The comments are as follows: The permit language, if changed, has deleted language as ~~strikeouts~~ and new language **bolded**.

Comment 1:

Condition D.1.3 has a test condition for an initial test of rotary hearth furnace B6. A stack test was conducted October 24, 2002, on rotary hearth furnace B 15. Furnace B15 processed an average of 1,267 lbs of material per hour over the three hour test period. The B15 furnace emission test resulted in 0.0014 lbs NO_x per hour and 0.0843 lbs CO per hour. Metaldyne wants the record to show that furnace B15 has a larger capacity than furnaces B1 through B8. The emissions from furnace B6 would be a fraction of the stack test results from furnace B15 since B6 and B15 are rated at 1,050 and 1,333 lbs of carbon steel rods per hour, respectively. If we over-estimate the emissions from furnace B6 as equal to those actual test results from furnace B15, the NO_x and CO emissions from a rotary hearth furnace do not warrant the need to conduct stack testing. At a minimum, the stack test results of the larger furnace B15 already show that the emissions from the small furnace B6 would meet the alternative emission factors of 0.5 lb NO_x per hour and 0.75 lb CO per hour as presented in SPM 079-17219-00014 indicating that an initial stack test of B6 is not needed.

Metaldyne believes stack testing furnace B6 or any of the similar sized furnaces would impose a financial burden that is not necessary and believes that stack testing provides no further benefit to the environment or the health of affected citizens nearby. Metaldyne formally requests that the initial stack test requirement as well as any periodic test requirement is dropped for furnace B6 from the air permit 079-23024-00014. Further, the "proposed stack test" requirement item "a" on page 22 of the TSD should be removed. Finally, with the stack testing requirement removed, there is no reason to list rotary furnaces B1 through B8 in Section D.1; therefore, please remove them from the description box.

Response 1:

IDEM, OAQ agrees with the above source's comment and stack testing of rotary hearth furnace B6 has been removed from the permit since previous testing of a larger furnace (B15) indicates that a smaller furnace (B6) can comply with the alternative emission factors. The OAQ prefers that the

Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision. This Addendum to the Technical Support Document becomes part of the Technical Support Document.

Item (d) of the equipment description box of Section D.1 and Condition D.1.3 have been deleted since there are no remaining applicable conditions for the eight (8) amp electric hearth furnaces. The Table of Contents has been updated as follows:

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: ~~Rotary Hearth Furnace and~~ Deflash Machines

- ~~(d) Eight (8) 330-amp electric rotary hearth furnaces, identified as B1 through B8, exhausted through Stacks BS1 through BS6, B7, and B8; B1 through B4 were installed in 1994, B5 and B6 were installed in 1996, and B7 and B8 were installed in 1997, capacity: 1,050 pounds of carbon steel rods per hour, each.~~
- (f) Four (4) deflash machines, identified as SD1, SD2, SD3 and SD4, installed in 1999, each equipped with a dust collector, capacity: 1,000 pounds of carbon steel rods per hour, each.

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

~~Compliance Determination Requirements~~

~~D.1.3 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]~~

~~Pursuant to SPM 079-17219-00014, issued on May 14, 2003, to verify the alternative emission factors of 0.75 pounds of CO per hour and 0.5 pounds of NO_x per hour per rotary hearth furnace, a compliance stack test of CO and NO_x for rotary hearth furnace B6 shall be performed by October 24, 2007. This test shall be performed once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C, Performance Testing.~~

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D.1 FACILITY OPERATION CONDITIONS: ~~Rotary Hearth Furnace B6 and~~ Deflash Machines 26

~~Compliance Determination Requirements~~

~~D.1.3 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]~~

Comment 2:

Concerning 'Appendix A: Emission Calculations', page 1 of 13, the second table (on the right) for NO_x/CO emissions has an empty cell in the 'emission units' column. Please add "Two (2) electric rotary hearth furnaces, identified as B15 and B 16." to the empty cell in the last row, first column of this table.

Response 2:

The omission has been corrected and included on page 1 of 13 of Appendix A of the TSD Addendum.

Comment 3:

Condition D.3 has the following description:

- (c) Twelve (12) rework sanders, identified as G1 through G12, installed in 1999, with particulate emissions controlled by eleven (11) aerocology units (dust collectors), exhausting inside, with a grain loading of 0.03 grains per dry actual cubic foot and a flow rate of less than 4,000 actual cubic feet per minute, each, capacity: 500 pounds of carbon steel rods per hour, each. [326 JAC 6-3-2] [326 L4C 2-2]"

Concerning Condition D.3, the rework sanders do not use the aerocology dust collectors that are listed. This error carries through the permit, TSD and 'Appendix A: Emission Calculations' in Conditions A.3, D.3, TSD p.5 letter "hh", and TSD p.13 table (with other occurrences possible as well). Please change "eleven (11) aerocology units (dust collectors)" to read "eleven (11) downdraft tables".

Response 3:

Condition A.3(d), letter (d) of the equipment description box in Section D.3, Condition D.3.2, and Condition D.3.6(a) of the permit have been corrected 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)]

- (d) Twelve (12) rework sanders, identified as G1 through G12, installed in 1999, with particulate emissions controlled by eleven (11) ~~aerocology units (dust collectors)~~, **downdraft tables**, ~~venting-exhausting~~ inside, with a grain loading of less than 0.03 grains per actual cubic foot and an air flow of less or equal to 4,000 actual cubic feet per minute, each, capacity: 500 pounds of carbon steel rods per hour, each [326 IAC 6-3-2] [326 IAC 2-2].

SECTION D.3

FACILITY OPERATION CONDITIONS

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

- (d) Twelve (12) rework sanders, identified as G1 through G12, installed in 1999, with particulate emissions controlled by eleven (11) ~~aerocology units (dust collectors)~~, **downdraft tables**, exhausting inside, with a grain loading of less than 0.03 grains per dry actual cubic foot and a flow rate of less than 4,000 actual cubic feet per minute, each, capacity: 500 pounds of carbon steel rods per hour, each. [326 IAC 6-3-2] [326 IAC 2-2]

D.3.2 PSD Minor Limit [326 IAC 2-2]

PM and PM₁₀ emissions from the eleven (11) ~~dust collectors~~ **downdraft tables**, identified as DC1 through DC11, which control emissions from the twelve (12) rework sanders, identified as G1 through G12, shall be limited to 0.129 pounds per hour, each.

Compliance with these limitations in combination with Conditions D.1.2, D.2.2, and potential PM/PM₁₀ emissions from the Quality Control Wheelabator shotblaster and other insignificant activities shall limit source-wide PM/PM₁₀ emissions to less than two hundred fifty (250) tons per year and shall render the requirements of 326 IAC 2-2, PSD, not applicable.

D.3.6 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Conditions D.3.1 and D.3.2, the eleven (11) ~~dust collectors~~ **downdraft tables** for particulate control, identified as DC1 through DC11, shall be in operation and control emissions from the twelve (12) rework sanders, identified as G1 through G12, at all

times when the emission units are in operation.

Comment 4:

In the TSD, page 4, letter "j" and page 19 item "b", line 7 both refer to F8 a second time as a 1000-ton forge press. This specific equipment does not exist and should be removed.

Response 4:

The 1,000-ton forge press, identified as F8, described in (j) on the Insignificant Activities list on page 4 of the TSD, is not specifically regulated and it did not appear in the permit. It has been duly noted that there is no 1000-ton forge press at this source. As a result of this comment, no changes have been made to the permit.

Comment 5:

In the TSD, on page 7, Condition D.2.6 refers to historical testing requirements for the deflash machines. In the "reasons revised" paragraph, first sentence, the correct test condition is D.1.3, not D.1.2. In the same paragraph, third sentence, the reference to Condition D.1.2(b) is no longer valid; the testing requirements for the deflash machines have been removed from the permit entirely in Section D.1. In the same paragraph, fourth sentence, the reference to Condition D.1.2(a) and the shot peen machines should now refer to Condition D.2.4.

Response 5:

While it is true that the testing requirements for the deflash machines were removed prior to Public Notice and that the references made in the TSD are now erroneous, no changes to the permit are required as a result of this comment.

Comment 6:

In the TSD, on page 11, the PTE summary in the table changed from the pre-draft version of 1,730 tpy PM and 1,730 tpy PM₁₀ to the public notice version stating 1,662 tpy PM and 1,629 tpy PM₁₀. Please explain the differences between the two versions of emission calculations. Which units had a decrease in PTE and why?

Response 6:

Emission factors of 17.0 pounds of PM per ton of metal processed and 1.70 pounds of PM₁₀ per ton of metal processed were used to calculate the PM and PM₁₀ emissions from the Quality Control Wheelabator Shotblaster in the Public Notice version of the calculations versus emissions calculations based on emission factors for steel shot combined with the density of the abrasives and nozzle pressures, resulting in a decrease in potential emissions. No changes to the permit are required as result of this comment.

Comment 7:

In the TSD, page 12, table: concerning the delube furnaces, each furnace has a single flame curtain. The description of "A1 and A2" as well as "A3 and A4" should state "with one (1) natural gas-fired flame curtain, each." Please make the change.

Response 7:

The descriptions of the above referenced emission units appear in Condition A.2(a) and (b) of the

permit and have been corrected as follows:

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) Two (2) 600-amp electric delube furnaces, identified as A1 and A2, installed in 1994, **each** equipped with ~~two (2)~~ **one (1)** natural gas-fired flame ~~curtains~~ **curtain** for methane control, rated at 0.002 million British thermal units per hour, ~~each~~, exhausted through Stacks AS1 and AS2, capacity 1,440 pounds of carbon steel rods per hour, each.
- (b) Two (2) 600-amp electric delube furnaces, identified as A3 and A4, installed in 1994, **each** equipped with ~~two (2)~~ **one (1)** natural gas-fired flame ~~curtains~~ **curtain** for methane control, rated at 0.002 million British thermal units per hour, ~~each~~, exhausted through Stacks AS3 and AS4, capacity: 1,440 pounds of carbon steel rods per hour, each.

Comment 8:

In the TSD, on page 18, part "a", concerning the process weight rule limitations of 326 IAC 6-3-2 table, the rework sanders use "eleven (11) downdraft tables." See comment #3 above.

Response 8:

Please refer to Response 3 above for an explanation of changes to the permit.

Comment 9:

The methodology on page 1 of 13 in the TSD, 'Appendix A: Emission Calculations,' should have a footnote changed. The fourth footnote should state that "hearth furnace B6 is smaller than the previously tested furnace B15."

Response 9:

Testing has been removed from the permit for rotary hearth furnace B6. Please see Response 1 above.

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

Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

Source Background and Description

Source Name:	Metaldyne Sintered Components
Source Location:	3100 North State Highway 3, North Vernon, IN 47265
County:	Jennings
SIC Code:	3462
Operation Permit No.:	T 079-12982-00014
Operation Permit Issuance Date:	April 17, 2002
Permit Renewal No.:	T 079-23024-00014
Permit Reviewer:	Michael A. Morrone

The Office of Air Quality (OAQ) has reviewed a Part 70 Operating Permit Renewal application from Metaldyne Sintered Components relating to the operation of a machine and forge metal powder connecting rods manufacturing source for the automotive industry.

History

The following explanation for why this source is not a sintering plant, which is one of the twenty-eight (28) major source categories, appeared in T 079-12982-00014, issued on April 17, 2002:

This source is not a sintering plant as documented in the TSD Addendum for Construction Permit No. 079-9994, issued on February 1, 1999. Therefore the source is not one of the 28 major PSD source categories. The plant performs hot forging activities and not sintering operations at the defined sintering temperature of 2,050 degrees Fahrenheit.

Permitted Emission Units and Pollution Control Equipment

- (a) Two (2) 600-amp electric delube furnaces, identified as A1 and A2, installed in 1994, equipped with two (2) natural gas-fired flame curtain for methane control, rated at 0.002 million British thermal units per hour, each, exhausted through Stacks AS1 and AS2, capacity 1,440 pounds of carbon steel rods per hour, each.
- (b) Two (2) 600-amp electric delube furnaces, identified as A3 and A4, installed in 1994, equipped with two (2) natural gas-fired flame curtains for methane control, rated at 0.002 million British thermal units per hour, each, exhausted through Stacks AS3 and AS4, capacity: 1,440 pounds of carbon steel rods per hour, each.
- (c) One (1) 900-amp electric delube furnace, identified as A5, installed in 1999, equipped with a natural gas-fired flame curtain for methane control, rated at 0.002 million British thermal units per hour, exhausted through Stack AS5, capacity: 2,515 pounds of carbon steel rods per hour.
- (d) Eight (8) 330-amp electric rotary hearth furnaces, identified as B1 through B8, exhausted through Stacks BS1 through BS6, B7, and B8; B1 through B4 were installed in 1994, B5 and B6 were installed in 1996, and B7 and B8 were installed in 1997, capacity: 1,050 pounds of carbon steel rods per hour, each.
- (e) Two (2) 330-amp electric rotary hearth furnaces, identified as B15 and B16, installed in 1999, exhausted through Stacks BS15 and BS16, capacity: 1,333 pounds of carbon steel rods per hour, each.

- (f) Four (4) deflash machines, identified as SD1, SD2, SD3 and SD4, installed in 1999, each equipped with a dust collector, capacity: 1,000 pounds of carbon steel rods per hour, each.
- (g) Two (2) shot peen machines, identified as SP1 and SP2, installed in 1994, equipped with two (2) baghouses, identified as SPD1 and SPD2, exhausting inside, with a throughput of 2,000 pounds of carbon steel rods per hour, each, capacity: 144,000 pounds of steel shot per hour, each.
- (h) Two (2) shot peen machines, identified as SP3 and SP4, installed in 1995, equipped with two (2) baghouses, identified as SPD3 and SPD4, exhausting inside, with a throughput of 2,000 pounds of carbon steel rods per hour, each, capacity: 144,000 pounds of steel shot per hour, each.
- (i) One (1) shot peen machine, identified as SP5, equipped with two (2) baghouses, identified as SPD5 and SPD6, installed in 1999, exhausting inside, with a throughput of 4,800 pounds of carbon steel rods per hour, capacity: 144,000 pounds of steel shot per hour.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted emission units operating at this source during this review process.

Emission Units that were Permitted but Never Installed at the Source

The following emission units were permitted but never installed at the source:

- (a) Two (2) double disk grinders, installed in 2002, identified as DD5 and DD6, exhausted through the general ventilation, equipped with a wet process for PM control, capacity: 2,000 pounds of carbon steel rods per hour, each.

Emission Units and Pollution Control Equipment Removed From the Source

The following emission units have been removed from the source:

- (a) One (1) 600-amp electric delube furnaces, identified as A6, equipped with a natural gas-fired flame curtain, rated at 0.002 million British thermal units per hour for methane control, exhausted through Stack AS6, installed in 1994, capacity: 1,440 pounds of carbon steel rods per hour.
- (b) Two (2) 900-amp electric delube furnaces, identified as A7 and A8, each equipped with a natural gas-fired flame curtain, rated at 0.002 million British thermal units per hour, each for methane control, exhausted through Stacks AS7 and AS8, installed in 1999, capacity: 2,515 pounds of carbon steel rods per hour, each.
- (c) Six (6) 330-amp electric rotary hearth furnaces, known as B9 through B14, exhausted through Stacks BS9 through BS14, to be installed, capacity: 1,050 pounds of carbon steel rods per hour, each.
- (d) One (1) secondary deflash machine, identified as SD9, equipped with a dust collector, installed in 1999, capacity: 1,000 pounds of carbon steel rods per hour.
- (e) Four (4) secondary deflash machines, identified as SD5 through SD8, each equipped with a dust collector, installed in 1995, capacity: 1,000 pounds of steel carbon rods per hour, each.
- (f) Two (2) shot peen machines, identified as SP6 and SP7, equipped with two (2) baghouses, identified as SPD6 and SPD7, respectively, to be installed, capacity: 144,000

pounds of steel shot per hour, each, SP6 throughput: 2,000 pounds of carbon steel rods per hour, SP7 throughput: 4,800 pounds of carbon steel rods per hour.

- (g) One (1) compacting press, identified as CP6, installed in 1995, capacity 2,880 pounds of powdered carbon steel per hour (326 IAC 6-3-2).
- (h) One (1) compacting press, identified as CP7, installed in 1999, capacity: 2,880 pounds of powdered carbon steel per hour (326 IAC 6-3-2).
- (i) One (1) compacting press, known as CP8, installed in 2003, capacity: 2,880 pounds of powdered carbon steel and lubricant per hour (326 IAC 6-3-2).
- (j) Twenty-four (24) rework sanders, identified as G13 through G36, installed in 1999, equipped with eleven (11) aerocology units (dust collectors), exhausting inside, with a grain loading of less than 0.03 grains per actual cubic foot and a flow rate of less than or equal to 4,000 actual cubic feet per minute, each, capacity: 500 pounds of carbon steel rods per hour, each. [326 IAC 6-3-2] [326 IAC 2-2]

New Emission Units and Pollution Control Equipment Receiving Advanced Source Modification Approval

There are no proposed emission units during this review process.

Insignificant Activities

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

- (a) Three (3) compacting presses, identified as CP1, CP3, and CP4, installed in 1994, exhausted through the general ventilation, capacity: 2,880 pounds of powdered carbon steel per hour, each.
- (b) One (1) compacting press, identified as CP5, installed in 1995, exhausted through the general ventilation, capacity 2,880 pounds of powdered carbon steel per hour, each.
- (c) One (1) compacting press, identified as CP2, installed in 1999, exhausted through the general ventilation, capacity: 2,880 pounds of powdered carbon steel per hour.
- (d) Two (2) double disk grinders, identified as DD1 and DD2, installed in 1994, exhausted through the general ventilation, equipped with a wet process for PM control, capacity: 2,000 pounds of carbon steel rods per hour, each.
- (e) Two (2) double disk grinders, identified as DD3 and DD4, installed in 1995, exhausted through the general ventilation, equipped with a wet process for PM control, capacity: 2,000 pounds of carbon steel rods per hour.
- (f) Two (2) double disk grinders, identified as DDM1 and DDM2, installed in 2005, exhausted through the general ventilation, each with a maximum process rate of 720 parts per hour.
- (g) Four (4) 900-ton forge presses, identified as F1 through F4, installed in 1994, exhausted through the general ventilation, capacity of 1,050 pounds of carbon steel rods per hour, each.
- (h) Two (2) 900-ton forge presses, identified as F5 and F6, installed in 1995, exhausted through the general ventilation, capacity: 1,050 pounds of carbon steel rods per hour, each.

- (i) Two (2) 900-ton forge presses, identified as F7 and F8, installed in 1997, exhausted through the general ventilation, capacity: 1,050 pounds of carbon steel rods per hour, each.
- (j) One (1) 1,000-ton forge press, identified as F8, installed in 1997, exhausted through the general ventilation, capacity: 2,100 pounds of carbon steel rods per hour.
- (k) Two (2) 1,000-ton forge presses, identified as F15 and F16, installed in 1999, exhausted through the general ventilation, capacity: 1,333 pounds of carbon steel rods per hour, each.
- (l) Two (2) magna flux machines, identified as MF1 and MF3, installed in 1995, exhausted through the general ventilation, capacity: 2,300 pounds of carbon steel rods per hour, each.
- (m) One (1) magna flux machine, identified as MF2, installed in 1999, exhausted through the general ventilation, capacity: 2,300 pounds of carbon steel rods per hour.
- (n) Four (4) mazak machines, identified as M1 through M4, installed in 1999, exhausted through the general ventilation, capacity: 800 pounds of carbon steel per hour each.
- (o) Two (2) mazak machines, identified as M5 and M6, installed in 2005, exhausted through the general ventilation, capacity: 800 pounds of carbon steel per hour.
- (p) Six (6) CNC machines, identified as CNCM1, CNCM2, CNCM3, CNCM5, CNCM7, and CNCM8, installed in 2005, exhausted through the general ventilation, throughput capacity: 120 parts per hour, each.
- (q) Two (2) CNC machines, identified as CNCM4, and CNCM6, installed in 2005, exhausted through the general ventilation, throughput capacity: 400 parts per hour, each.
- (r) Two (2) crack and assembly machines, identified as CAM1 and CAM2, installed in 2005, exhausted through the general ventilation, throughput capacity: 267 and 400 parts per hour, respectively.
- (s) One (1) hone machine, identified as HM1, installed in 2005, exhausting to the general ventilation, throughput capacity: 720 parts per hour.
- (t) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, consisting of the following:
 - (1) One (1) maintenance parts washer, identified as Washer 1, installed in 1994 [326 IAC 8-3-5] [326 IAC 8-3-2].
 - (2) One (1) parts washer, identified as PWM1, installed in 2005, washing parts at a maximum process rate of 720 parts per hour, with all emissions exhausted through the parts washer stack [326 IAC 8-3-5] [326 IAC 8-3-2].
- (u) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (v) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].
- (w) One (1) quality control Wheelabator shot blaster with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to

- 4,000 actual cubic feet per minute, equipped with a dust collector, maximum capacity: 6,000 pounds of steel shot per hour [326 IAC 6-3-2].
- (x) Emergency generators as follows: diesel generators not exceeding 1,600 horsepower; natural gas turbines or reciprocating engines not exceeding 16,000 horsepower.
 - (y) Farm operations.
 - (z) A laboratory as defined in 326 IAC 2-7-1(21)(D).
 - (aa) Fourteen (14) ink jet stations, installed in 1995, exhausting to the general ventilation, with the potential to emit methanol.
 - (bb) Application of oils, greases lubricants or other nonvolatile materials applied as temporary protective coatings.
 - (cc) Any operation using aqueous solutions containing less than 1 percent by weight of VOCs excluding HAPs.
 - (dd) Noncontact cooling tower systems with either of the following: forced and induced draft cooling tower system not regulated under a NESHAP.
 - (ee) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
 - (ff) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
 - (gg) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
 - (hh) Twelve (12) rework sanders, identified as G1 through G12, installed in 1999, with particulate emissions controlled by eleven (11) aerocology units (dust collectors), with a grain loading of less than 0.03 grains per actual cubic foot and a flow rate of less than or equal to 4,000 actual cubic feet per minute, capacity: 500 pounds of carbon steel rods per hour, each [326 IAC 6-3-2] [326 IAC 2-2].

Existing Approvals

The source has been operating under the previous Part 70 Operating Permit 079-12982-00014, issued on April 17, 2002, and the following amendments and modifications:

- (a) Review Request 079-16995-00014, issued on January 10, 2003;
- (b) SPM 079-17219-00014, issued on May 14, 2003;
- (c) Review Request 079-16358-00014, issued on December 15, 2004;
- (d) AA 079-20049-00014, issued on March 18, 2005;
- (e) AA 079-21360-00014, issued on August 1, 2005; and
- (f) AA 079-21876-00014, issued on November 15, 2005.

All terms and conditions of previous permits issued pursuant to permitting programs approved

into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this proposed permit. All previous registrations and permits are superseded by this permit.

The following terms and conditions from previous approvals have been revised in this Part 70 Operating Permit:

- (a) Condition D.2.3(b), (c), (d), (e) from SPM 079-17219-00014, issued on May 14, 2003:

D.2.3 Particulate Matter (PM) [326 IAC 6-3-2]

- (b) The requirement from CP 079-4413-00014, issued May 16, 1995, Operation Condition 5 stated that pursuant to 326 IAC 6-3-2, the allowable PM emission rate shall not exceed 20.3 pounds per hour for two (2) shot peens and 2.23 pounds per hour for five (5) deflash machines is no longer applicable because with a process weight rate of 2,000 pounds of carbon rods per hour, each for the two (2) shot peens, known as SP3 and SP4, the allowable PM emission rate should be 4.10 pounds per hour, each. And the five (5) secondary deflash machines, known as SD4, SD5, SD6, SD7 and SD8, with a process weight rate of 1,000 pounds of carbon rods per hour each, equates to an allowable PM emission rate 2.58 pounds per hour. Thus, Operation Condition 5 of CP 079-3694-00014 is hereby rescinded.
- (c) The requirement from CP 079-9498-00014, issued July 22, 1998, Condition D.1.1 stated that pursuant to 326 IAC 6-3-2, the allowable PM emission rate shall not exceed the listed truncated pounds per hour values for shot peen machines, SP1 - SP4, and deflash machines D4 - D8 is no longer applicable because the PM allowable emission rates are no longer truncated and are calculated with the proper process weight rates. Thus, Condition D.1.1 of CP 079-9498-00014, is hereby rescinded.
- (d) The requirement from CP 079-9994-00014, issued February 1, 1999, Condition D.1.1 stated that the allowable PM emission rate shall not exceed 48.0 pounds per hour each for shot peen machines, known as SP1 - SP5 is no longer applicable because with a process weight rate of 2,000 pounds of carbon rods per hour, each for the four (4) shot peens, known as SP1 - SP4, the allowable PM emission rate should be 4.10 pounds per hour, each. And shot peen machine, known as SP5 with a process weight rate of 4,800 pounds per hour equates to an allowable PM emission rate 7.37 pounds per hour. Thus, Condition D.1.1 of CP 079-9994-00014 is hereby rescinded.
- (e) The requirement from SSM 079-10884-00014, issued on August 10, 1999, Condition D.1.1(c) stated that pursuant to 326 IAC 6-3-2, the allowable PM emission rate shall not exceed 2.68 pounds per hour each of the two (2) shot peens, known as SP6 and SP7 is no longer applicable because with a process weight rate of 2,000 pounds of carbon rods per hour for SP6 and 4,800 pounds per hour for SP7 (both permitted, but never constructed) the allowable PM emission rates from the proposed emission units should be 4.10 and 7.37 pounds per hour, respectively. Thus, Condition D.1.1(c) of SSM 079-10884-00014 is hereby rescinded.

Reason Revised:

Subsections (b) through (e) of Condition D.2.3 reference old permit information that has already been incorporated into this renewal. Therefore, reference to conditions from previous permits not being included in this renewal is unnecessary.

- (b) Condition D.2.5 from SPM 079-17219-00014, issued on May 14, 2003:

D.2.5 Particulate Matter (PM)

In order to comply with Condition D.2.3, the dust collectors and baghouses for PM control shall be in operation and control emissions from the secondary deflash machines (SD1 - SD9) and the shot peen machines (SP1 - SP7) at all times that these facilities are in operation.

Reason Revised:

The dust collectors for the deflash machines (formerly referred to as "secondary deflash machines) do not have to be operated because as a result of five (5) of the machines being removed from the source, the unrestricted emissions are less than the allowable emissions. In addition, two (2) shot peens have been removed from the source; the permit now only references the five (5) shot peens, identified as SP1 through SP5.

- (c) Condition D.2.6 from SPM 079-17219-00014, issued on May 14, 2003:

D.2.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) To demonstrate compliance with Condition D.2.3, a compliance stack test of PM for any two (2) of the secondary deflash machines (SD1 - SD9) shall be performed between May 6, 2004 and November 6, 2004 which corresponds to five (5) years since the latest valid stack test plus one hundred and eighty (180) days utilizing 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. Testing shall be conducted in accordance with Section C- Performance Testing.
- (b) Within 180 days of start-up, in order to demonstrate compliance with Condition D.2.3, the Permittee shall perform PM testing of the shot peen machine, known as SP7, utilizing 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. Testing shall be conducted in accordance with Section C- Performance Testing.

Reason Revised:

The testing requirements for the deflash machines and the shot peen machines now appear in Condition D.1.2 of the permit. Since five (5) of the deflash machines (these machines are no longer referred to as "secondary deflash machines) have been removed from the source, compliance testing is only required for one (1) of the deflash machines. This new requirement now appears as Condition D.1.2(b), with the new compliance testing date of June 8, 2009, since the last compliance stack testing took place on June 8, 2004 and the requirement from SPM 079-17219-00014 stated that testing was required once every five (5) years. Condition D.1.2(a) now references the one (1) shot peen machine, identified as SP5, since shot peen machine SP7 has been removed from the source and shot peen machine SP5 processes the largest number of parts of the remaining shot peen machines.

- (d) Condition D.2.11(c) from SPM 079-17219-00014, issued on May 14, 2003:

D.2.11 Record Keeping Requirements

- (c) To document compliance with Condition D.2.9, the Permittee shall maintain records of the results of the inspections required under Condition D.2.9 and the dates the vents are redirected.

Reason Revised:

Subsection (c) from Condition D.2.11 has been removed because it references Condition D.2.9, Baghouse Inspections, which has been removed from the permit.

(e) Condition D.3.3 from SPM 079-17219-00014, issued on May 24, 2003:

D.3.3 Particulate Matter (PM) [326 IAC 6-3-2]

(a) Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from the brazing equipment, cutting torches, soldering equipment, welding equipment, grinding and machining operations including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations shall not exceed allowable PM emission rate based on the following equation:

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

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

(b) Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from the compacting presses, known as CP1 through CP8, double disk grinders, known as DD1 through DD6, forge presses, known as F1 through F16, magna flux machines, known as MF1 through MF5 and MF7, mazak machines, known as M1 through M4, automated deflash machine known as AD10 and the rework sanders known as G1 through G36 shall not exceed the following based on the process weight rates listed in the table.

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

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

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

Operation	Process Weight Rate	Allowable PM Emission Rate (pounds per hour)
Compacting Presses (CP1-CP8)	1.44 tons/hr (2,880 lbs/hr)	5.24, each
Double Disk Grinders (DD1-DD6)	1.00 tons/hr (2,000 lbs/hr)	4.10, each
Forge Presses (F1-F7 and F9-F14)	0.525 tons/hr (1,050 lbs/hr)	2.66, each
Forge Presses (F8, F15, and F16)	1.05 tons/hr (2,100 lbs/hr)	4.24, each
Magna Flux Machines (MF1 – MF5 and MF7)	1.15 tons/hr (2,300 lbs/hr)	4.50, each
Mazak Machines (M1-M4)	0.400 tons/hr (800 lbs/hr)	2.22, each
Automated Deflash Machine (AD10)	0.600 tons/hr (1,200 lbs/hr)	2.91
Rework Sanders (G1-G36)	0.250 tons/hr (500 lbs/hr)	1.62, each

- (c) The requirement from SSM 079-10884-00014, issued on August 10, 1999, Condition D.1.1(a) stated that pursuant to 326 IAC 6-3-2, the allowable PM emission rate shall not exceed 4.35 pounds per hour for automated deflash machine, known as AD10 is no longer applicable because with a process weight rate of 1,200 pounds per hour for the automated deflash machine, known as AD10, the allowable PM emission rate should be 2.91 pounds per hour. Thus, Condition D.1.1(a) of SSM 079-10884-00014 is hereby rescinded.

Reason Revised:

Of the equipment listed in the above table, only the twelve (12) rework sanders, identified as G1 through G12 (formerly there were thirty-six (36) rework sanders), are subject to 326 IAC 6-3-2. The remaining equipment is exempt, pursuant to 326 IAC 6-3-1(b)(14) because their PM emissions are less than 0.551 pounds per hour. The permit now only references the twelve (12) rework sanders.

The following terms and conditions from previous approvals have been determined no longer applicable; therefore, were not incorporated into this proposed Part 70 Operating Permit:

- (a) All construction conditions from SPM 079-17219-00014, issued May 14, 2003:

Reason not incorporated: All facilities previously permitted have already been constructed; therefore, the construction conditions are no longer necessary as part of the operating permit. Any facilities that were previously permitted but have not yet been constructed would need new pre-construction approval before beginning construction.

- (b) Condition D.1.3 from SPM 079-17219-00014, issued on May 14, 2003:

D.1.3 Particulate Matter (PM) [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate shall not exceed the following based on the process weight rates listed in the table.

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

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

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

Operation	Process Weight Rate	Allowable PM Emission Rate (pounds per hour)
Delube Furnaces (A1, A2, A3, A5 & A6)	0.720 tons/hr, each (1,440 lbs/hr, each)	3.29, each
Delube Furnaces (A7 & A8)	1.26 tons/hr each (2,515 lbs/hr, each)	4.79, each
Rotary Hearth Furnaces (B1 - B5, B7 & B8, B9 - B14)	0.525 tons/hr, each (1,050 lbs/hr, each)	2.66, each
Rotary Hearth Furnaces (B6, B15 & B16)	0.667 tons/hr, each (1,333 lbs/hr, each)	3.13, each

- (b) The requirement from CP 079-3694-00014, issued October 25, 1994, Operation Condition 4 stated that pursuant to 326 IAC 6-3-2, the allowable PM emission rate shall not exceed 2.91 pounds per hour is no longer applicable because with a process weight rate of 1,440 pounds per hour for the delube furnaces, known as A2, A3, A5, and A6, the allowable PM emission rate should be 3.29 pounds per hour, each. Thus, Operation Condition 4 of CP 079-3694-00014 is hereby rescinded.

Reason not incorporated:

The PM emissions from the facilities in the above table are less than 0.551 pounds per hour and pursuant to 326 IAC 6-3-1(b)(14) are exempt from the requirements of 326 IAC 6-3-2. Therefore, Condition D.1.3 has been removed from the permit.

- (c) Condition D.2.9 from SPM 079-17219-00014, issued on May 14, 2003:

D.2.9 Baghouse Inspections

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

Reason not incorporated:

Baghouse inspections are no longer required when baghouse parametric monitoring is required. Therefore, Condition D.2.9 has been removed from the permit.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 Operating 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 application for the purposes of this review was received on April 27, 2006, with additional information received on January 25 and January 26, 2007, and April 17, 2007.

Emission Calculations

See pages 1 through 11 of Appendix A of this document for detailed emission calculations.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous Part 70.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	1662
PM ₁₀	1629
SO ₂	1.62
VOC	2.21
CO	57.8
NO _x	54.8

HAPs	Unrestricted Potential Emissions (tons/yr)
Glycol Ether	0.218
Hexane	0.018
Methanol	0.002
Formaldehyde	0.001
Benzene, Dichlorobenzene, Toluene, Lead, Cadmium, Chromium, Manganese, Nickel	Less than 0.001
Total	0.240

The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀ is equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

Potential to Emit of the Source after Issuance

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

The source was issued a Part 70 Operating Permit on April 17, 2002. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of the original Part 70 Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/Emission Unit (Baghouse)	Potential To Emit (tons/yr)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Two (2) electric delube furnaces, identified as A1 and A2, equipped with two (2) natural gas-fired flame curtains (None)	0.00003	0.0001	0.00001	0.0001	8.76	8.76	0.00008 single; 0.0001 total
Two (2) electric delube furnaces, identified as A3 and A4, equipped with two (2) natural gas-fired flame curtains (None)	0.00003	0.0001	0.00001	0.0001	8.76	8.76	
One (1) electric delube furnace, identified as A5, equipped with one (1) natural gas-fired flame curtain (None)	0.00002	0.0001	0.00001	0.00005	4.38	4.38	
Eight (8) electric rotary hearth furnaces, identified as B1 through B8 (None)	0.00	0.00	0.00	0.00	26.3	17.5	0.00
Two (2) electric rotary hearth furnaces, identified as B15 and B16 (None)	0.00	0.00	0.00	0.00	6.57	4.38	0.00
Four (4) deflash machines, identified as SD1, SD2, SD3, and SD4 (Dust Collectors 1 through 4)	45.2	45.2	0.00	0.00	0.00	0.00	0.00
Two (2) shot peen machines, identified as SP1 and SP2 (SPD1 and SPD2)	35.9	35.9	0.00	0.00	0.00	0.00	0.00

Process/Emission Unit (Baghouse)	PM	PM10	SO2	VOC	CO	NOx	HAPs
Two (2) shot peen machines, identified as SP3 and SP4 (SPD3 and SPD4)	35.9	35.9	0.00	0.00	0.00	0.00	0.00
One (1) spot peen machine, identified as SP5 (SPD5 and SPD6)	32.3	32.3	0.00	0.00	0.00	0.00	0.00
Insignificant Activities							
Process/Emission Unit (Baghouse)	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Twelve (12) rework sanders, identified as G1 through G12 (DC1 through DC11)	6.19	6.19	0.00	0.00	0.00	0.00	0.00
Emergency Diesel Generators (None)	0.280	0.00	1.62	0.282	2.20	9.60	0.00
Emergency Natural Gas Turbines (None)	0.019	0.077	0.006	0.056	0.855	1.42	0.018 single; 0.019 total
Degreasing Operations (None)	0.00	0.00	0.00	1.41	0.00	0.00	0.218 single; 0.218 total
Ink Jet operations (None)	0.00	0.00	0.00	0.320	0.00	0.00	0.002 single; 0.002 total
Quality Control Shotblaster (Dust Collector)	37.2	3.72	0.00	0.00	0.00	0.00	0.00
All other activities	25.0	25.0	0.00	0.147	0.00	0.00	0.00
Total Emissions	218	185	1.62	2.21	57.8	54.8	0.218 single; 0.240 total

- (a) This source is not a major source for PSD because the potential to emit of all criteria pollutants and PM emissions are less than two hundred and fifty (250) tons per year, each.

(b) Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	Not reported
PM ₁₀	1.00
SO ₂	Not reported
VOC	Not reported
CO	21.0
NO _x	17.0
HAP	Not reported

County Attainment Status

The source is located in Jennings County.

Pollutant	Status
PM _{2.5}	attainment
PM ₁₀	attainment
SO ₂	attainment
NO ₂	attainment
8-Hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Jennings County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section of this document.
- (b) Jennings County has been classified as unclassifiable or attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD),

326 IAC 2-2 for PM_{2.5} emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions. See the State Rule Applicability – Entire Source section of this document.

- (c) Jennings County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section of this document.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana.

Part 70 Operating Permit Conditions

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

- (a) 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 Operating Permits.
- (b) Monitoring and related record keeping requirements which assure that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Federal Rule Applicability

- (a) This source does involve a pollutant-specific emissions unit as defined in 40 CFR 64.1 for PM₁₀:
 - (1) with the potential to emit before controls equal to or greater than the major source threshold for PM₁₀,
 - (2) that is subject to an emission limitation or standard for PM₁₀ and
 - (3) uses a control device as defined in 40 CFR Part 64.1 to comply with that emission limitation or standard.

Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are applicable to the four (4) shot peens, identified as SP1 through SP4. A CAM plan has been submitted and the Compliance Requirements section of this document includes a detailed description of the CAM requirements.

- (b) The natural gas-fired turbines have a heat input of greater than ten million (10,000,000) British thermal units per hour, but are used as emergency generators. Therefore, the requirements of the New Source Performance Standard, 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, are not included in the permit.
- (c) There are no other New Source Performance Standards included in the permit for this source.
- (d) The insignificant degreasing operations do not use halogenated solvents. Therefore, the

requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63, Subpart T, National Emission Standards for Halogenated Solvent Cleaning, are not included in the permit.

- (e) This source is an area source for HAPs. Therefore, the requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63, Subpart YYYY, National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines, are not included in the permit.
- (f) This source is an area source for HAPs. Therefore, the requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, are not included in the permit.
- (g) This source is an area source for HAPs. Therefore, the requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, are not included in the permit.
- (h) There are no other National Emission Standards for Hazardous Air Pollutants included in the permit for this source.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

- (a) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.
- (b) The unrestricted potential to emit PM and PM₁₀ is greater than two-hundred fifty (250) tons per year. However, the source will limit PM and PM₁₀ emissions as follows:
 - (1) PM and PM₁₀ emissions from the two (2) shot peen machines, identified as SP1 and SP2, shall be limited to 4.10 pounds per hour, each. This will limit PM and PM₁₀ emissions from the two (2) shot peen machines to 18.0 tons per year, each.
 - (2) PM and PM₁₀ emissions from the two (2) shot peen machines, identified as SP3 and SP4, shall be limited to 4.10 pounds per hour, each. This will limit PM and PM₁₀ emissions from the two (2) shot peen machines to 18.0 tons per year, each.
 - (3) PM and PM₁₀ emissions from the one (1) shot peen machine, identified as SP5, shall be limited to 7.37 pounds per hour. This will limit PM and PM₁₀ emissions from the one (1) shot peen machine to 32.3 tons per year.
 - (4) PM and PM₁₀ emissions from the four (4) deflash machines, identified as SD1 through SD4, shall be limited to 2.58 pounds per hour, each. This will limit PM and PM₁₀ emissions from the four (4) deflash machines to 45.2 tons per year, total.
 - (5) PM and PM₁₀ emissions from the one (1) quality control Wheelabator shotblaster shall be limited to 8.56 pounds per hour. This will limit PM and PM₁₀ emissions from the one (1) quality control Wheelabator shotblaster to 37.5 tons per year.

- (6) PM and PM₁₀ emissions from the eleven (11) dust collectors, identified as DC1 through DC11, which control emissions from the twelve (12) rework sanders, identified as G1 through G12, shall be limited to 0.129 pounds per hour, each. This will limit PM and PM₁₀ emissions from the eleven (11) dust collectors, which control emissions from the twelve (12) rework sanders to 0.563 tons per year, each, and less than two hundred fifty (250) tons per year from the entire source.
- (7) Compliance with these PM and PM₁₀ limits together with the unrestricted potential to emit from all other process at the source shall limit PM and PM₁₀ emissions from the entire source to less than two hundred fifty (250) tons per year and shall render the requirements of 326 IAC 2-2, PSD, not applicable.
- (c) The unrestricted potential to emit of all remaining criteria pollutants are less than two-hundred fifty (250) tons per year. Therefore, this source, which is not one of the twenty-eight (28) listed source categories is a minor source pursuant to 326 IAC 2-2, PSD.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit pursuant to 326 IAC 2-7, Part 70. In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted by July 1. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

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

- (a) Opacity shall not exceed an average of 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.

State Rule Applicability – Individual Facilities

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

The two (2) electric delube furnaces, identified as A1 and A2, the two (2) electric delube furnaces, identified as A3 and A4, the one (1) electric delube furnace, identified as A5, the eight (8) electric rotary hearth furnaces, identified as B1 through B8, and the two (2) electric rotary hearth furnaces, identified as B15 and B16, are not sources of indirect heating. Therefore, the requirements of 326 IAC 6-2, Particulate Emissions Limitations for Sources of Indirect Heating, are not applicable.

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

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the pounds per hour limitation when operating at the stated process weight rates calculated using the following equations:

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

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

Emission Unit (baghouse)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)	How will unit comply with 326 IAC 6-3-2?
Four (4) deflash machines, identified as SD1 through SD4 (each with a dust collector)	0.500, each	2.58, each	Emissions are limited to allowable particulate emission rate.
Two (2) shot peen machines, identified as SP1 and SP2 (SPD1 and SPD2)	1.00, each	4.10, each	Emissions are limited to allowable particulate emission rate by using the baghouses.
Two (2) shot peen machines, identified as SP3 and SP4 (SPD3 and SPD4)	1.00, each	4.10, each	Emissions are limited to allowable particulate emission rate by using the baghouses.
One (1) shot peen machine, identified as SP5 (SPD5 and SPD6)	2.40	7.37	Emissions are limited to allowable particulate emission rate by using the baghouses.

Therefore, the particulate rate calculated for each emission unit in Appendix A of this document shows that each emission unit can comply with the calculated allowable particulate emission rate pursuant to 326 IAC 6-3-2 as shown in the above table.

- (b) The unrestricted potential to emit PM from the two (2) electric delube furnaces, identified as A1 and A2, the two (2) electric delube furnaces, identified as A3 and A4, the one (1) electric delube furnace, identified as A5, the eight (8) electric rotary hearth furnaces, identified as B1 through B8, the one (1) electric rotary hearth furnace, identified as B6, and the two (2) electric rotary hearth furnaces, identified as B15 and B16, are less than 0.551 pounds per hour, each. Therefore, pursuant to 326 IAC 6-3-1(b)(14), the requirements of 326 IAC 6-3-2 are not applicable.

State Rule Applicability – Insignificant Activities

326 IAC 6-3-2 (Particulate Matter Emissions for Manufacturing Processes)

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the pounds per hour limitation when operating at the stated process weight rates calculated using the following equations:

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

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

Emission Unit (baghouse)	Process weight rate (tons per hour)	Allowable particulate emission rate (pounds per hour)	How will unit comply with 326 IAC 6-3-2?
Twelve (12) rework sanders, identified as G1 through G12	0.250, each	1.62, each	Eleven (11) dust collectors will limit emissions to 0.129 pounds per hour, each.
One (1) quality control Wheelabator shotblaster	3.00	8.56	Emissions will be limited to allowable particulate emission rate by using the baghouse.

Therefore, the particulate rate calculated for each emission unit shows that each emission unit can comply with the calculated allowable particulate emission rate pursuant to 326 IAC 6-3-2 as shown in the above table.

- (b) The PM emissions from the three compacting presses, identified as CP1, CP3, and CP4, the one (1) compacting press, identified as CP5, the one (1) compacting press, identified as CP2, the two (2) double disk grinders, identified as DD1 and DD2, the two (2) double disk grinders, identified as DD3 and DD4, the two (2) double disk grinders, identified as DDM1 and DDM2, the four (4) forge presses, identified as F1 through F4, the two (2) forge presses, identified as F5 and F6, the two (2) forge presses, identified as F7 and F8, the one (1) forge press, identified as F8, the two (2) forge presses, identified as F15 and F16, the two (2) magna flux machines, identified as MF1 and MF3, the one (1) magna flux machine, identified as MF2, the four (4) mazak machines, identified as M1 through M4, the two (2) mazak machines, identified as M5 and M6, the six (6) CNC machines, identified as CNCM1 through CNCM3, CNCM5, CNCM7, and CNCM8, the two (2) CNC machines, identified as CNCM4 and CNCM6, the two (2) crack and assembly machines, identified as CAM1 and CAM2, the one (1) hone machine, identified as HM1, and the following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment are all less than 0.551 pounds per hour, each. Therefore, pursuant to 326 IAC 6-3-1(b)(14), the requirements of 326 IAC 6-3-2 are not applicable to all of these facilities.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

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

This source is located in Jennings County, which is attainment for PM, and was not a new source of fugitive particulate emissions constructed after December 13, 1985. Therefore, the requirements of 326 IAC 6-5 are not included in the permit.

326 IAC 8-3-2 (Cold Cleaner Operation)

The one maintenance (1) parts washer, identified as Washer 1, was constructed in 1994 and the one (1) parts washer, identified as PWM1, was constructed in 2005. Therefore, they are subject to 326 IAC 8-3-2, Cold Cleaner Operation, for cold cleaning operations constructed after January 1, 1980. Pursuant to 326 IAC 8-3-2, the owner or operator shall:

- (a) equip the cleaner with a cover;
- (b) equip the cleaner with a facility for draining cleaned parts;
- (c) close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) provide a permanent, conspicuous label summarizing the operating requirements; and
- (f) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

326 IAC 8-3-5 (Cold cleaner degreaser operation and control)

The one maintenance (1) parts washer, identified as Washer 1, and the one (1) parts washer, identified as PW1, were constructed after July 1, 1990 and do not have remote solvent reservoirs. Therefore, pursuant to 326 IAC 8-3-1(b)(2), the requirements of 326 IAC 8-3-5 (Cold cleaner degreaser operations and control) are applicable.

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

Testing Requirements

Previous Stack Tests

- (a) Pursuant to Condition D.1.4 of T 079-12982-00014, issued on April 17, 2002, the source performed compliance stack tests on Delube Furnace A7 and Rotary Hearth Furnace B15 on October 24, 2002. The stack testing of Delube Furnace A7 and Rotary Hearth Furnace B15 was required to verify the carbon monoxide (CO) emissions in pounds per hour and the nitrogen oxide (NO_x) emissions in pounds per hour at the outlet exhausts of each of these furnaces. The Delube Furnace had a permitted emission factor of 1.5 pounds of CO per hour and 0.1382 pounds of NO_x per hour. The Rotary Hearth Furnace had a permitted emission factor of 0.31 pounds of CO per hour and 0.0016 pounds of NO_x per hour. The permitted emission factors were considered alternate emission factors and they were not limits in the Operating Permit.

On January 3, 2003 IDEM, OAQ accepted these stack test results. The compliance stack test results showed that the emission factors for NO_x and CO for the Delube Furnace exhaust were 0.4783 pounds per hour and 0.05 pounds per hour, respectively. The measured emission factors for the Rotary Hearth Furnace exhaust were 0.0014 pounds per hour for NO_x and 0.08 pounds per hour for CO. Therefore, the Rotary Hearth Furnace B15 was in compliance with the alternate emission factors for NO_x and CO. The Delube Furnace A7 was in compliance with the CO alternative emission factor. However, the stack test showed that the NO_x emissions for Delube Furnace A7 were 0.4783 pounds

per hour which is greater than the alternate emission rate of 0.1382 pounds per hour. As a result, new emission factors of 1.00 pounds per hour for CO and NO_x were proposed for the Delube Furnaces and factors of 0.75 pounds per hour for CO and 0.50 pounds per hour for NO_x were proposed for the Rotary Hearth Furnaces.

- (b) Pursuant to Condition D.1.3 of CP 079-9994, issued on February 1, 1999, the source performed compliance stack testing on one of the automated secondary deflash machines to verify the alternative emissions factors for PM and PM₁₀ of 4.28 pounds per ton. This test was successfully completed on May 5 and 6, 1999 and on June 6 and 8, 2004.

Proposed Stack Tests

- (a) Pursuant to Condition D.1.4 of SPM 079-17219-00014, issued on May 14, 2003, to verify the alternative emission factors of 0.75 pounds of CO per hour and 0.5 pounds of NO_x per hour per rotary hearth furnace, a compliance stack test of CO and NO_x for rotary hearth furnace B6 shall be performed by October 24, 2007. This test shall be performed once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C, Performance Testing.
- (b) During the period between 180 days after issuance of this Part 70 permit, in order to demonstrate compliance with particulate emission limitations, the Permittee shall perform PM and PM₁₀ testing for the one (1) shot peen machine, identified as SP5, utilizing 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. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

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

The Compliance Determination Requirements applicable to this source are as follows:

The two (2) shot peen machines, identified as SP1 and SP2, the two (2) shot peen machines, identified as SP3 and SP4, the one (1) shot peen machine, identified as SP5, the twelve (12) rework sanders, identified as G1 through G12, and the one (1) quality control Wheelabator shotbaster have the following Compliance Determination Requirements:

- (1) The baghouses for particulate control shall be in operation and control emissions from the the two (2) shot peen machines, identified as SP1 and SP2, the two (2) shot peen machines, identified as SP3 and SP4, the one (1) shot peen machine, identified as SP5, and the twelve (12) rework sanders, identified as G1 through G12, and the one (1) quality control Wheelabator shotblaster at all times when the emission units are in operation.
- (2) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

The Compliance Assurance Monitoring Requirements applicable to this source are as follows:

The two (2) shot peen machines, identified as SP1 and SP2, the two (2) shot peen machines, identified as SP3 and SP4, and the one (1) shot peen machine, identified as SP5, have the following Compliance Monitoring Requirements:

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

Conclusion

The operation of this machine and forge metal powder connecting rods manufacturing source for the automotive industry shall be subject to the conditions of this Part 70 Operating Permit T 079-23024-00014.

Company Name: Metaldyne Sintered Components
 Address City IN Zip: 3100 North Highway 3, North Vernon, IN 47265
 Part 70: T 079-23024-00014
 Reviewer: Michael A. Morrone
 Date: February 28, 2007

Deflash Machines, Shot Peen Machines, Electric Delube Furnaces, Electric Rotary Hearth Furnace

PM/PM10 Emissions

Emission Units	Metal Throughput (lbs/hr)	Steel Shot/Metal Capacity (lbs/hr)	PM/PM10 Emission Factor (lbs/ton)	Unrestricted Potential to Emit PM/PM10 (tons/yr)	Control Efficiency	Potential to Emit PM/PM10 after Controls (tons/yr)
Four (4) deflash machines, identified as SD1, SD2, SD3, and SD4	1,000, each	4000	2.58 lbs/hr, each*	45.2	99.0%	0.452
Two (2) shot peen machines, identified as SP1 and SP2**	2,000, each	288000	0.200	126	99.5%	0.631
Two (2) shot peen machines, identified as SP3 and SP4**	2,000, each	288000	0.200	126	99.5%	0.631
One (1) spot peen machine, identified as SP5**	4800	144000	0.200	63.1	99.5%	0.315
			Totals	361		2.03

NOx/CO Emissions

Emission Units	NOx Emission Factor per Furnace (lbs/hr)	Unrestricted Potential to Emit NOx (tons/yr)	CO Emission Factor per Furnace (lbs/ton)	Unrestricted Potential to Emit CO (tons/yr)
Two (2) electric delube furnaces, identified as A1 and A2, equipped with two (2) natural gas-fired flame curtains	1.00	8.76	1.00	8.76
Two (2) electric delube furnaces, identified as A3 and A4, equipped with three (3) natural gas-fired flame curtains	1.00	8.76	1.00	8.76
One (1) electric delube furnace, identified as A5, equipped with one (1) natural gas-fired flame curtain	1.00	4.38	1.00	4.38
Eight (8) electric rotary hearth furnaces, identified as B1 through B8	0.500	17.5	0.750	26.3
	0.500	4.38	0.750	6.57
	Totals	43.8		54.8

METHODOLOGY

*The PM/PM10 emission factor for the four (4) deflash machines is a **pound per hour** limitation based on 326 IAC 6-3-2. $(2.58 \text{ lbs/hr}) * 4 * (8760 \text{ hrs/yr}/2000 \text{ lbs/ton}) = 45.2 \text{ tons/yea}$
 PM/PM10 Emission Factors based on an IDEM approved stack test on May 5 and 6, 1999 for all units, and repeated on June 6 and 8, 2004 for the deflash machines.
 Since the one (1) shot peen machine, identified as SP7, has been removed from the source, the testing requirement for the shot peen machines will now be satisfied by testing SP5.

**The emission factors for the shot peen machines are based on lbs per ton of shot processed, not lbs per ton of metal.

NOx/CO Emission Factors for the delube furnaces were proposed in SPM 079-17219-00014, issued on May 14, 2003, as a result of a non-compliant stack test conducted on October 24, 2002.

NOx/CO Emission Factors for the hearth furnaces were proposed in SPM 079-17219-00014, issued on May 14, 2003. Since hearth furnace B6 is not identical to the previously tested furnace B15, a stack test was required for B6 by October 24, 2007, to ensure compliance with the alternative emission factors.

Unrestricted potential to emit PM/PM10 (tons/yr) = Throughput capacity (lbs/hr) * Emission Factor (lbs/ton) * (1 ton/2000 lbs) * (1 ton/2000 lbs)
 Potential to Emit PM/PM10 after controls (tons/yr) = Unrestricted potential to emit (tons/yr) * (1 - Control Efficiency)

Unrestricted Potential to Emit NOx (tons/yr) = (NOx Emission Factor * 8760 hours/yr)/(2000 lbs/ton)
 Unrestricted Potential to Emit CO (tons/yr) = (CO Emission Factor * 8760 hours/yr)/(2000 lbs/ton)

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

**Company Name: Metaldyne Sintered Components
Address City IN Zip: 3100 North Highway 3, North Vernon, IN 47625
Part 70: T 079-23024-00014
Reviewer: Michael A. Morrone
Date: February 28, 2007**

Emissions from natural gas combustion from the afterburners attached to the Electric Delube Furnaces

Emission Factor in lb/MMCF	Pollutant				
	PM*	PM10*	SO2	NOx	VOC
	1.90	7.60	0.600	100	5.50
				**see below	

*PM emission factor is filterable PM only. PM-10 emission factor is filterable and condensable PM-10 combined.

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

Equipment	Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Potential Emission in tons/yr				
			PM*	PM10*	SO2	NOx	VOC
Two (2) electric delube furnaces, identified as A1 and A2, equipped with two (2) natural gas-fired flame curtains	0.004	0.035	0.00003	0.0001	0.00001	0.002	0.0001
Two (2) electric delube furnaces, identified as A1 and A2, equipped with two (2) natural gas-fired flame curtains	0.004	0.035	0.00003	0.0001	0.00001	0.002	0.0001
One (1) electric delube furnace, identified as A5, equipped with one (1) natural gas-fired flame curtain	0.002	0.018	0.00002	0.0001	0.00001	0.001	0.00005
Total	0.010	0.088	0.0001	0.0003	0.00003	0.004	0.0002

Methodology

All emission factors are based on normal firing.

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 are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

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

See page 3 for HAPs emissions calculations.

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 HAPs Emissions**

**Company Name: Metaldyne Sintered Components
 Address City IN Zip: 3100 North Highway 3, North Vernon, IN 47625
 Part 70: T 079-23024-00014
 Reviewer: Michael A. Morrone
 Application Date: February 28, 2007**

HAPs - Organics

Emission Factor in lb/MMcf	Benzene 0.002	Dichlorobenzene 0.0012	Formaldehyde 0.0750	Hexane 1.80	Toluene 0.003
Potential Emission in tons/yr	0.0000001	0.0000001	0.000003	0.00008	0.0000001

HAPs - Metals

Emission Factor in lb/MMcf	Lead 0.0005	Cadmium 0.001	Chromium 0.001	Manganese 0.0004	Nickel 0.002
Potential Emission in tons/yr	0.00000002	0.00000005	0.0000001	0.00000002	0.0000001

Methodology is the same as page 2.

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

13 TSD App A

CO 84.0

CO
0.001
0.001
0.001
0.004

13 TSD App A

Total HAPs
0.0001

**Appendix A: Emission Calculations
Cold Cleaning and Coolant Usage**

**Company Name: Metaldyne Sintered Components
Address City IN Zip: 3100 North Highway 3, North Vernon, IN 47625
Part 70: T 079-23024-00014
Reviewer: Michael A. Morrone
Date: February 28, 2007**

Material	Usage (gal/hr)	Density (lbs/gal)	Weight % VOC	Weight % Glycol Ether	VOC Emissions (tons/yr)	Glycol Ether Emissions (tons/yr)
Degreaser						
PWM1 Parts Washer Solvent	0.131	7.61	17.1%	5.00%	0.747	0.218

Material	Usage (gal/hr)	VOC Content (lbs/gal)	VOC Emissions (tons/yr)
Coolant			
Nalco Tech Cool 35100	0.0007	0.860	0.003
Syntillo 9924	0.014	1.76	0.105
Syntillo 9954	0.014	0.644	0.039
Totals:			0.147

Methodology

VOC emissions (tons/yr) = Usage (gal/hr) x Density (lbs/gal) x Weight % VOC x 8760 hrs/yr / 2,000 lbs/ton
HAP emissions (tons/yr) = Usage (gal/hr) x Density (lbs/gal) x Weight % HAP x 8760 hrs/yr / 2,000 lbs/ton

**Appendix A: Emission Calculations
Insignificant Rework Sanders**

**Company Name: Metaldyne Sintered Components
Address City IN Zip: 3100 North Highway 3, North Vernon, IN 47625
Part 70: T 079-23024-00014
Reviewer: Michael A. Morrone
Date: February 28, 2007**

Twelve (12) rework sanders, with eleven (11) dust collectors (DC1 through DC11)

Dust Collectors	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.)	Gas or Air Flow Rate (acfm.)	PM Emission Rate before Controls (lb/hr)	PM Emission Rate before Controls (tons/yr)	PM Emission Rate after Controls (lb/hr)	PM Emission Rate after Controls (tons/yr)
DC1	99.5%	0.005	3000	25.7	113	0.129	0.563
DC2	99.5%	0.005	3000	25.7	113	0.129	0.563
DC3	99.5%	0.005	3000	25.7	113	0.129	0.563
DC4	99.5%	0.005	3000	25.7	113	0.129	0.563
DC5	99.5%	0.005	3000	25.7	113	0.129	0.563
DC6	99.5%	0.005	3000	25.7	113	0.129	0.563
DC7	99.5%	0.005	3000	25.7	113	0.129	0.563
DC8	99.5%	0.005	3000	25.7	113	0.129	0.563
DC9	99.5%	0.005	3000	25.7	113	0.129	0.563
DC10	99.5%	0.005	3000	25.7	113	0.129	0.563
DC11	99.5%	0.005	3000	25.7	113	0.129	0.563
Totals				283	1239	1.41	6.19

Methodology

These activities are considered insignificant, pursuant to 326 IAC 2-7-1(21)(G)(xxiii).

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (cub. ft./min.) (60 min/hr) (lb/7000 grains)

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

Emission Rate in lbs/hr (before controls) = Emission Rate (after controls)(lbs/hr) / (1-control efficiency)

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

**Appendix A: Emission Calculations
Insignificant Abrasive Blasting**

Company Name: Metaldyne Sintered Components
Address City IN Zip: 3100 North Highway 3, North Vernon, IN 47625
Part 70: T 079-23024-00014
Reviewer: Michael A. Morrone
Date: February 28, 2007

Quality control Wheelabator Shotblaster
Table 1 - Emission Factors for Abrasives

Abrasive	Emission Factor	
	lb PM / ton metal	lb PM10 / ton metal
Steel Shot	17.0	1.70

Metal processed (tons/hr) = 0.500

Uncontrolled Emissions (E, lb/hr)

Control Efficiency = 98.0%

PM Emissions

Uncontrolled Emissions =	8.50	lb/hr
	37.2	ton/yr
Controlled Emissions =	0.170	lb/hr
	0.745	ton/yr

PM10 Emissions

Uncontrolled Emissions =	0.850	lb/hr
	3.72	ton/yr
Controlled Emissions =	0.017	lb/hr
	0.074	ton/yr

METHODOLOGY

PM and PM10 emission factors from FIRE 6.25 using SCC code 3-04-007-11
 Lb/hr (PM) = Steel shot processed (lb/hr) X Emission factor (lb PM/lb abrasive)
 Lb/hr (PM10) = Metal processed (ton/hr) X Emission factor (lb PM10/ton metal)
 Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs

**Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Turbine (>600 HP)**

Company Name: Metaldyne Sintered Components
Address City IN Zip: 3100 North Highway 3, North Vernon, IN 47625
Part 70: T 079-23024-00014
Reviewer: Michael A. Morrone
Date: February 28, 2007

Emissions calculated based on output rating (hp)

Emergency Diesel Engine; assumed 500 hours per year of use.

Power Output
Horsepower (hp)

Potential Throughput
hp-hr/yr

S= = WEIGHT % SULFUR

Emission Factor in lb/hp-hr	Pollutant					
	PM*	PM10	SO2	NOx	VOC	CO
	0.0007	0.0007	0.004 (.00809S)	0.024 **see below	0.00071	0.00550
Potential Emission in tons/yr	0.280	0.280	1.62	9.60	0.282	2.20

**NOx emission factor: uncontrolled = 0.024 lb/hp-hr, controlled by ignition timing retard = 0.013 lb/hp-hr
 Note that the PM10 emission factor in lb/hp-hr is not provided in the Supplement B update of AP-42.
 Assumed that PM=PM10.

Methodology

Potential Throughput (hp-hr/yr) = hp * 8760 hr/yr

Emission Factors are from AP 42 (Supplement B 10/96) Table 3.4-1 and Table 3.4-2

1 hp-hr = 7000 Btu, AP42 (Supplement B 10/96), Table 3.3-1, Footnote a.

Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)

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

**Appendix A: Emission Calculations
 Natural Gas Combustion Only
 MMBTU/HR >100
 Natural Gas Turbine**

Company Name: Metaldyne Sintered Components
Address City IN Zip: 3100 North Highway 3, North Vernon, IN 47625
Part 70: T 079-23024-00014
Reviewer: Michael A. Morrone
Application Date: February 28, 2007

Emergency Natural Gas Turbine/Reciprocating Engine; assumed 500 hours per year of use.

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
40.7	20.3

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.90	7.60	0.600	140 **see below	5.50	84.0
Potential Emission in tons/yr	0.019	0.077	0.006	1.42	0.056	0.855

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

**Emission Factors for NOx: Uncontrolled = 280 (pre-NSPS) or 190 (post-NSPS), Low NOx Burner = 140, Flue gas recirculation = 100 (See Table 1.4-1)

Methodology

All emission factors are based on normal firing.

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 #1-01-006-01, 1-01-006-04
 (AP-42 Supplement D 3/98)

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

See page 9 for HAPs emissions calculations.

Appendix A: Emission Calculations

Natural Gas Combustion Only

MMBTU/HR >100

Natural Gas Turbine

HAPs Emissions

Company Name: Metaldyne Sintered Components

Address City IN Zip: 3100 North Highway 3, North Vernon, IN 47625

Part 70: T 079-23024-00014

Reviewer: Michael A. Morrone

Application Date: February 28, 2007

HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	0.002	0.001	0.075	1.80	0.003
Potential Emission in tons/yr	0.00002	0.00001	0.0008	0.018	0.00003

HAPs - Metals						
	Lead	Cadmium	Chromium	Manganese	Nickel	Total HAPs
Emission Factor in lb/MMcf	0.0005	0.0011	0.0014	0.0004	0.002	
Potential Emission in tons/yr	0.00001	0.00001	0.00001	0.000004	0.00002	0.019

Methodology is the same as page 8.

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

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

Company Name: Metaldyne Sintered Components
Address City IN Zip: 3100 North Highway 3, North Vernon, IN 47625
Part 70: T 079-23024-00014
Reviewer: Michael A. Morrone
Application Date: February 28, 2007

Uncontrolled Potential Emissions (cont.)

<i>Significant Emission Units</i>	PM	PM-10	SO2	NOx	VOC	CO	Benzene	Dichloro-benzene	Formal-dehyde	Hexane	Toluene	Lead	Cadmium	Chromium	Manganese	Nickel	Methanol	Glycol Ether
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
Two (2) shot peen machines, identified as SP3 and SP4	126	126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
One (1) spot peen machine, identified as SP5	63.1	63.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal Significant Emission Unit	361	361	0.00	43.8	0.0002	54.8	0.0000001	0.0000001	0.000003	0.0001	0.0000001	0.00000002	0.0000000	0.0000001	0.00000002	0.0000001	0.00	0.00
<i>Insignificant Activities</i>																		
Twelve (12) rework sanders, identified as G1 through G12	1239	1239	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emergency Diesel Generators	0.280	0.280	1.62	9.60	0.282	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emergency Natural Gas	0.019	0.077	0.01	1.42	0.056	0.85	0.00002	0.00001	0.001	0.018	0.00003	0.00001	0.00001	0.00001	0.000004	0.00002	0.00	0.00
Degreasing Operations	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.218
Ink Jet Operations	0.00	0.00	0.00	0.00	0.320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002	
Quality control shotblaster	37.2	3.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
insignificant activities	25.0	25.0	0.00	0.00	0.147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal Insignificant Activities	1301	1268	1.62	11.0	2.21	3.05	0.00	0.00	0.00	0.018	0.00003	0.00001	0.00001	0.00001	0.000004	0.00002	0.00	0.00
Total	1662	1629	1.62	54.8	2.21	57.8	0.00002	0.00001	0.001	0.018	0.00003	0.00001	0.00001	0.00001	0.000004	0.00002	0.002	0.218

Company Name: Metaldyne Sintered Components
 Address City IN Zip: 3100 North Highway 3, North Vernon, IN 47625
 Part 70: T 079-23024-00014
 Reviewer: Michael A. Morrone
 Application Date: February 28, 2007

Controlled and Limited Potential Emissions (cont.)

<i>Significant Emission Units</i>	PM (tons/yr)	PM-10 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Benzene (tons/yr)	Dichloro- benzene (tons/yr)	Formal- dehyde (tons/yr)	Hexane (tons/yr)	Toluene (tons/yr)	Lead (tons/yr)	Cadmium (tons/yr)	Chromium (tons/yr)	Manganese (tons/yr)	Nickel (tons/yr)	Methanol (tons/yr)	Glycol Ether (tons/yr)	
Two (2) shot peen machines, identified as SP3 and SP4	35.9	35.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
One (1) spot peen machine, identified as SP5	32.3	32.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal Significant Emission Units	149	149	0.00003	43.8	0.0002	54.8	0.0000001	0.0000001	0.000003	0.0001	0.0000001	0.00000002	0.0000000	0.0000001	0.00000002	0.0000001	0.00	0.00	0.00
<i>Insignificant Activities</i>																			
Twelve (12) rework sanders, identified as G1 through G12	6.19	6.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emergency Diesel Generators	0.280	0.280	1.62	9.60	0.282	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emergency Natural Gas Turbines	0.019	0.077	0.006	1.42	0.056	0.855	0.00002	0.00001	0.001	0.018	0.00003	0.00001	0.00001	0.00001	0.000004	0.00002	0.00	0.00	0.00
Degreasing Operations	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.218
Ink Jet Operations	0.00	0.00	0.00	0.00	0.320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.002	0.00	0.002	0.00	0.00
Quality Control shotblaster	37.2	3.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
All other insignificant activities	25.0	25.0	0.00	0.00	0.147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal Insignificant Activities	68.7	35.3	1.62	11.0	2.21	3.05	0.00002	0.00001	0.001	0.018	0.00003	0.00001	0.00001	0.00001	0.002	0.002	0.00	0.00	0.00
Total	218	185	1.62	54.8	2.21	57.8	0.00002	0.00001	0.001	0.018	0.00003	0.00001	0.00001	0.00001	0.002	0.002	0.002	0.002	0.218

Total HAPs (tons/yr)
0.0001
0.00
0.00
0.00

0.00

Total HAPs
(tons/yr)
0.00
0.00
0.0001
0.00
0.00
0.019
0.218
0.002
0.00
0.00
0.240
0.240

Total HAPs
(tons/yr)
0.0001
0.00
0.00
0.00
0.00

Total HAPs
(tons/yr)
0.00
0.00
0.0001
0.00
0.00
0.019
0.218
0.002
0.00
0.00
0.240
0.240