



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
MC 61-53
(317) 232-8603
(800) 451-6027
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TO: Interested Parties / Applicant
DATE: December 27, 2007
RE: D & D Brake Sales, Inc / 059-24014-00012
FROM: Matthew Stuckey, Deputy Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot12/03/07



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100 North Senate Avenue
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Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**D & D Brake Sales, Inc.
State Road 234 & Mohawk Road
Fortville, Indiana 46040**

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

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

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

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

Operation Permit No.: F059-24014-00012	
Issued by: Original signed by: Chrystal Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 27, 2007 Expiration Date: December 27, 2017

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SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary brake shoe rebuild and assembly source.

Source Address:	State Road 234 & Mohawk Road, Fortville, Indiana 46040
Mailing Address:	P.O. Box 160, Fortville, Indiana 46040
General Source Phone Number:	(317) 485-5177
SIC Code:	3069, 7539
County Location:	Hancock
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State 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 2-8-3(c)(3)]

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

- (a) One (1) brake liner shot blasting operation, consisting of two (2) Pangborn shot blasters identified as #1 and #2, constructed in 1992, with a total maximum capacity of blasting 1,400 pounds of brake shoes per hour, utilizing one (1) common baghouse (ID #1) for particulate control, and exhausting through one (1) stack ID #1.

Under the National Emissions Standards for Hazardous Air Pollutants, National Emission Standard for Asbestos [40 CFR Part 61, Subpart M], the affected fabricating operations using commercial asbestos that are subject to this rule are the brake liner shot blasting and brake liner chopping operations.

- (b) One (1) brake liner chopping operation, consisting of three (3) deliner choppers, constructed in 1992, with a total maximum throughput capacity of 5,625 brake shoes per hour, utilizing one (1) common baghouse (ID #3) for particulate control, exhausting through one (1) stack ID #3.

Under the National Emissions Standards for Hazardous Air Pollutants, National Emission Standard for Asbestos [40 CFR Part 61, Subpart M], the affected fabricating operations using commercial asbestos that are subject to this rule are the brake liner shot blasting and brake liner chopping operations.

- (c) One (1) brake liner grinding operation, consisting of three (3) grinders identified as #1, #3, and #4, constructed in 1992, with a total maximum grinding rate of 1,400 pounds per hour, all utilizing one (1) common baghouse (ID #2) and a HEPA filter for particulate control, exhausting through one (1) stack ID #2.

- (d) Two (2) dip tanks, identified as primary and secondary, each constructed in 1992, each with a maximum throughput rate of 1.929 gallons per hour. The secondary dip tank is only used when the primary dip tank is not working.

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

This stationary source also includes the following insignificant activities:

- (a) Propane or liquified petroleum gas, or butane-fired combustion sources with heat input equal to or less than six (6) million (6,000,000) British thermal units per hour, including:
 - (1) One (1) burnoff oven, constructed in 1992, with a maximum heat input rate of 0.75 million British thermal units (MMBtu) per hour, exhausting through stack ID #7. [326 IAC 4-2-2] [326 IAC 9-1]
 - (2) Two (2) bonding ovens, identified as #1 and #3, each constructed in 1992, with respective maximum heat input rates of 0.5 and 1.5 MMBtu per hour, exhausting through respective stacks #5 and #6. Bonding oven #1 is equipped with a micro air filter, but no control efficiency is assumed for particulate matter emissions reduction. Bonding oven #3 is equipped with a 0.03 MMBtu per hour afterburner, but no control efficiency is assumed for carbon monoxide (CO) or volatile organic compounds (VOC) emissions reduction.
- (b) Vessel storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (c) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings.
- (d) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment.
- (e) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (f) One (1) propane storage tank, identified as #1, constructed in 1992, with a maximum storage capacity of 15,042 gallons.

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

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

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, F059-24014-00012, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability [326 IAC 2-8-6]

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

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

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

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

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

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

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" 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) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

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

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

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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.12 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,
Compliance 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 2-8-4(3)(C)(ii) and must contain the following:

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

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

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

- (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

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

- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

- (a) All terms and conditions of permits established prior to F059-24014-00012 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
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 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

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

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

Indiana Department of Environmental Management
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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

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

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

Indiana Department of Environmental Management
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 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.

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

- (b) Emission Trades [326 IAC 2-8-15(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 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

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

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

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ 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) 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.24 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-8-4(1)]

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

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

C.2 Overall Source Limit [326 IAC 2-8]

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) The potential to emit particulate matter (PM) from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

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

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

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

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

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

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

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

C.7 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.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana 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.

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

C.9 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.12 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.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(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 2-8-4][326 IAC 2-8-5(a)(1)]

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

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

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

- (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; and/or
 - (3) inspection of the control device, associated capture system, and the process.

- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall 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 2-8-4][326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

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

C.18 General Reporting Requirements [326 IAC 2-8-4(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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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.19 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 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) brake liner shot blasting operation, consisting of two (2) Pangborn shot blasters identified as #1 and #2, constructed in 1992, with a total maximum capacity of blasting 1,400 pounds of brake shoes per hour, utilizing one (1) common baghouse (ID #1) for particulate control, and exhausting through one (1) stack ID #1.

Under the National Emissions Standards for Hazardous Air Pollutants, National Emission Standard for Asbestos [40 CFR Part 61, Subpart M], the affected fabricating operations using commercial asbestos that are subject to this rule are the brake liner shot blasting and brake liner chopping operations.

- (b) One (1) brake liner chopping operation, consisting of three (3) deliner choppers, constructed in 1992, with a total maximum throughput capacity of 5,625 brake shoes per hour, utilizing one (1) common baghouse (ID #3) for particulate control, exhausting through one (1) stack ID #3.

Under the National Emissions Standards for Hazardous Air Pollutants, National Emission Standard for Asbestos [40 CFR Part 61, Subpart M], the affected fabricating operations using commercial asbestos that are subject to this rule are the brake liner shot blasting and brake liner chopping operations.

- (c) One (1) brake liner grinding operation, consisting of three (3) grinders identified as #1, #3, and #4, constructed in 1992, with a total maximum grinding rate of 1,400 pounds per hour, all utilizing one (1) common baghouse (ID #2) and a HEPA filter for particulate control, exhausting through one (1) stack ID #2.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Particulate [326 IAC 6-3-2][362 IAC 2-2]

Pursuant to 326 IAC 6-3-2(e), the allowable particulate emission rate from the facility control device stacks listed below shall not exceed the specified limitations when operating at the indicated process weight rates. The pounds per hour limitations were 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:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

Emission Unit/Activity	Process Weight Rate (lbs/hr)	Allowable Particulate Emissions (326 IAC 6-3-2) (lb/hr)
Pangborn shot blast operation (2 shot blasters) controlled by baghouse ID#1 (stack #1)	1,400	3.23
Brake liner grinding operation (3 grinders) controlled by baghouse ID#2 & HEPA Filter (stack #2)	1,400	3.23
Deliner chopping operation (3 choppers) controlled by baghouse ID#3 (stack #3)	1,875	3.93

Compliance with these limits shall also limit the source-wide potential to emit of particulate matter to less than 100 tons per twelve (12) consecutive month period. Therefore, compliance with this condition shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration, PSD) not applicable.

D.1.2 PM-10 Emission Limitation [326 IAC 2-8-4][362 IAC 2-2]

PM-10 emitted from the process operation control devices shall be limited as follows:

- (a) The shot blast operation exhausting at baghouse stack ID #1 shall be limited to 4.614 pounds of PM-10 emitted per ton of brake shoes processed.
- (b) The brake liner grinding operation exhausting at baghouse and HEPA filter stack ID #2 shall be limited to 4.614 pounds of PM-10 emitted per ton of brake shoes processed.
- (c) The deliner chopping operation exhausting at baghouse stack ID #3 shall be limited to 4.192 pounds of PM-10 emitted per ton of brake shoes processed.

Compliance with this condition shall limit the source-wide potential to emit of PM-10 to less than 100 tons per twelve (12) consecutive month period. Therefore, compliance with this condition shall satisfy 326 IAC 2-8-4 (FESOP) and render the requirements of 326 IAC 2-7 (Part 70) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.3 Hazardous Air Pollutants (HAPs) [326 IAC 2-8-4]

Asbestos, as a single HAP, emitted from the specified process operation control devices shall be limited as follows:

- (a) The shot blast operation exhausting at baghouse stack ID #1 shall be limited to 1.628 pounds of asbestos emitted per ton of brake shoes cleaned.
- (b) The deliner chopping operation (3 choppers) exhausting at baghouse stack ID #3 shall be limited to 1.216 pounds of asbestos emitted per ton of brake shoe liners chopped.

Compliance with this condition shall limit the source-wide potential to emit of a single HAP (as asbestos) to less than 10 tons per twelve (12) consecutive month period. Compliance with this condition shall also limit the source-wide potential to emit of the combined HAPs to less the 25 tons per 12 consecutive month period. Therefore, compliance with this condition shall satisfy 326 IAC 2-8-4 (FESOP) and render the requirements of 326 IAC 2-7 (Part 70) not applicable.

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

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

Compliance Determination Requirements

D.1.5 Particulate (PM and PM-10) and Asbestos

- (a) Pursuant to CP 059-2477-00012, issued on August 26, 1992 and CP 059-2668-00012, issued on October 21, 1992, and in order to comply with D.1.1, D.1.2 and D.1.3, the baghouses for PM, PM-10 and asbestos control shall be in operation and control emissions from the shot blasting operation, the brake liner grinding operation, and the deliner chopping operation at all times that the respective facilities 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 Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

D.1.6 Visible Emissions Notations

- (a) Visible emission notations of the shot blasting operation; grinder operation; and deliner chopping operation baghouse stack exhausts (ID Nos. 1, 2 and 3, respectively) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (d) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.7 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses used in conjunction with the respective shot blasting, grinding, and deliner chopping operations, at least once per day when the shot blasting; grinding; and chopping units are in operation. When for any one reading, the pressure drop across the baghouses are outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit

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

D.1.8 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 processing of the material in the emissions unit. 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).

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

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.6, the Permittee shall maintain records of daily visible emission notations of the respective brake liner shot blasting, grinding, and deliner chopping operations stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain daily records of the pressure drop across the baghouses controlling the brake liner shot blasting, grinding, and deliner chopping operations. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-8-4(1)]

D.1.10 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants [326 IAC 14-1] [40 CFR Part 61, Subpart M]

- (a) Pursuant to 40 CFR 61.01, the Permittee shall comply with the provisions of 40 CFR Part 61 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 14-1 for the brake liner shot blasting and deliner chopping operations except as otherwise specified in 40 CFR Part 61, Subpart M.
- (b) Pursuant to 40 CFR 61.17, the Permittee shall submit all required notifications and reports 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

D.1.11 NESHAP Requirements [40 CFR Part 61, Subpart M] [326 IAC 14]

Pursuant to 40 CFR Part 61, Subpart M (National Emission Standard for Asbestos), the Permittee shall comply with the provisions of 40 CFR Part 61, Subpart M, which are incorporated by reference as 326 IAC 14-2-1, for the brake liner shot blasting and brake liner chopping fabrication operations as specified as follows.

Authority: 42 U.S.C. 7401, 7412, 7414, 7416, 7601.

Source: 49 FR 13661, Apr. 5, 1984, unless otherwise noted.

§ 61.140 Applicability.

The provisions of this subpart are applicable to those sources specified in §§61.142 through 61.151, 61.154, and 61.155.

[55 FR 48414, Nov. 20, 1990]

§ 61.141 Definitions.

All terms that are used in this subpart and are not defined below are given the same meaning as in the Act and in subpart A of this part.

Active waste disposal site means any disposal site other than an inactive site.

Adequately wet means sufficiently mix or penetrate with liquid to prevent the release of particulates. If visible emissions are observed coming from asbestos-containing material, then that material has not been adequately wetted. However, the absence of visible emissions is not sufficient evidence of being adequately wet.

Asbestos means the asbestiform varieties of serpentinite (chrysotile), riebeckite (crocidolite), cummingtonite-grunerite, anthophyllite, and actinolite-tremolite.

Asbestos-containing waste materials means mill tailings or any waste that contains commercial asbestos and is generated by a source subject to the provisions of this subpart. This term includes filters from control devices, friable asbestos waste material, and bags or other similar packaging contaminated with commercial asbestos. As applied to demolition and renovation operations, this term also includes regulated asbestos-containing material waste and materials contaminated with asbestos including disposable equipment and clothing.

Asbestos mill means any facility engaged in converting, or in any intermediate step in converting, asbestos ore into commercial asbestos. Outside storage of asbestos material is not considered a part of the asbestos mill.

Asbestos tailings means any solid waste that contains asbestos and is a product of asbestos mining or milling operations.

Asbestos waste from control devices means any waste material that contains asbestos and is collected by a pollution control device.

Category I nonfriable asbestos-containing material (ACM) means asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy.

Category II nonfriable ACM means any material, excluding Category I nonfriable ACM, containing more than 1 percent asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Commercial asbestos means any material containing asbestos that is extracted from ore and has value because of its asbestos content.

Cutting means to penetrate with a sharp-edged instrument and includes sawing, but does not include shearing, slicing, or punching.

Demolition means the wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations or the intentional burning of any facility.

Emergency renovation operation means a renovation operation that was not planned but results from a sudden, unexpected event that, if not immediately attended to, presents a safety or public health hazard, is necessary to protect equipment from damage, or is necessary to avoid imposing an unreasonable financial burden. This term includes operations necessitated by nonroutine failures of equipment.

Fabricating means any processing (e.g., cutting, sawing, drilling) of a manufactured product that contains commercial asbestos, with the exception of processing at temporary sites (field fabricating) for the construction or restoration of facilities. In the case of friction products, fabricating includes bonding, debonding, grinding, sawing, drilling, or other similar operations performed as part of fabricating.

Facility means any institutional, commercial, public, industrial, or residential structure, installation, or building (including any structure, installation, or building containing condominiums or individual dwelling units operated as a residential cooperative, but excluding residential buildings having four or fewer dwelling units); any ship; and any active or inactive waste disposal site. For purposes of this definition, any building, structure, or installation that contains a loft used as a dwelling is not considered a residential structure, installation, or building. Any structure, installation or building that was previously subject to this subpart is not excluded, regardless of its current use or function.

Facility component means any part of a facility including equipment.

Friable asbestos material means any material containing more than 1 percent asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than 10 percent as determined by a method other than point counting by polarized light microscopy (PLM), verify the asbestos content by point counting using PLM.

Fugitive source means any source of emissions not controlled by an air pollution control device.

Glove bag means a sealed compartment with attached inner gloves used for the handling of asbestos-containing materials. Properly installed and used, glove bags provide a small work area enclosure typically used for small-scale asbestos stripping operations. Information on glove-bag installation, equipment and supplies, and work practices is contained in the Occupational Safety and Health Administration's (OSHA's) final rule on occupational exposure to asbestos (appendix G to 29 CFR 1926.58).

Grinding means to reduce to powder or small fragments and includes mechanical chipping or drilling.

In poor condition means the binding of the material is losing its integrity as indicated by peeling, cracking, or crumbling of the material.

Inactive waste disposal site means any disposal site or portion of it where additional asbestos-containing waste material has not been deposited within the past year.

Installation means any building or structure or any group of buildings or structures at a single demolition or renovation site that are under the control of the same owner or operator (or owner or operator under common control).

Leak-tight means that solids or liquids cannot escape or spill out. It also means dust-tight.

Malfunction means any sudden and unavoidable failure of air pollution control equipment or process equipment or of a process to operate in a normal or usual manner so that emissions of asbestos are increased. Failures of equipment shall not be considered malfunctions if they are caused in any way by poor maintenance, careless operation, or any other preventable upset conditions, equipment breakdown, or process failure.

Manufacturing means the combining of commercial asbestos—or, in the case of woven friction products, the combining of textiles containing commercial asbestos—with any other material(s), including commercial asbestos, and the processing of this combination into a product. Chlorine production is considered a part of manufacturing.

Natural barrier means a natural object that effectively precludes or deters access. Natural barriers include physical obstacles such as cliffs, lakes or other large bodies of water, deep and wide ravines, and mountains. Remoteness by itself is not a natural barrier.

Nonfriable asbestos-containing material means any material containing more than 1 percent asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy, that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Nonscheduled renovation operation means a renovation operation necessitated by the routine failure of equipment, which is expected to occur within a given period based on past operating experience, but for which an exact date cannot be predicted.

Outside air means the air outside buildings and structures, including, but not limited to, the air under a bridge or in an open air ferry dock.

Owner or operator of a demolition or renovation activity means any person who owns, leases, operates, controls, or supervises the facility being demolished or renovated or any person who owns, leases, operates, controls, or supervises the demolition or renovation operation, or both.

Particulate asbestos material means finely divided particles of asbestos or material containing asbestos.

Planned renovation operations means a renovation operation, or a number of such operations, in which some RACM will be removed or stripped within a given period of time and that can be predicted. Individual nonscheduled operations are included if a number of such operations can be predicted to occur during a given period of time based on operating experience.

Regulated asbestos-containing material (RACM) means (a) Friable asbestos material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.

Remove means to take out RACM or facility components that contain or are covered with RACM from any facility.

Renovation means altering a facility or one or more facility components in any way, including the stripping or removal of RACM from a facility component. Operations in which load-supporting structural members are wrecked or taken out are demolitions.

Resilient floor covering means asbestos-containing floor tile, including asphalt and vinyl floor tile, and sheet vinyl floor covering containing more than 1 percent asbestos as determined using polarized light microscopy according to the method specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy.

Roadways means surfaces on which vehicles travel. This term includes public and private highways, roads, streets, parking areas, and driveways.

Strip means to take off RACM from any part of a facility or facility components.

Structural member means any load-supporting member of a facility, such as beams and load supporting walls; or any nonload-supporting member, such as ceilings and nonload-supporting walls.

Visible emissions means any emissions, which are visually detectable without the aid of instruments, coming from RACM or asbestos-containing waste material, or from any asbestos milling, manufacturing, or fabricating operation. This does not include condensed, uncombined water vapor.

Waste generator means any owner or operator of a source covered by this subpart whose act or process produces asbestos-containing waste material.

Waste shipment record means the shipping document, required to be originated and signed by the waste generator, used to track and substantiate the disposition of asbestos-containing waste material.

Working day means Monday through Friday and includes holidays that fall on any of the days Monday through Friday.

[49 FR 13661, Apr. 5, 1984; 49 FR 25453, June 21, 1984, as amended by 55 FR 48414, Nov. 20, 1990; 56 FR 1669, Jan. 16, 1991; 60 FR 31920, June 19, 1995]

§ 61.147 Standard for fabricating.

(a) *Applicability.* This section applies to the following fabricating operations using commercial asbestos:

(2) The fabrication of friction products, except those operations that primarily install asbestos friction materials on motor vehicles.

(b) *Standard.* Each owner or operator of any of the fabricating operations to which this section applies shall either:

(1) Discharge no visible emissions to the outside air from any of the operations or from any building or structure in which they are conducted or from any other fugitive sources.

(3) Monitor each potential source of asbestos emissions from any part of the fabricating facility, including air cleaning devices, process equipment, and buildings that house equipment for material processing and handling, at least once each day, during daylight hours, for visible emissions to the outside air during

periods of operation. The monitoring shall be by visual observation of at least 15 seconds duration per source of emissions.

(4) Inspect each air cleaning device at least once each week for proper operation and for changes that signal the potential for malfunctions, including, to the maximum extent possible without dismantling other than opening the device, the presence of tears, holes, and abrasions in filter bags and for dust deposits on the clean side of bags. For air cleaning devices that cannot be inspected on a weekly basis according to this paragraph, submit to the Administrator, and revise as necessary, a written maintenance plan to include, at a minimum, the following:

(i) Maintenance schedule.

(ii) Recordkeeping plan.

(5) Maintain records of the results of visible emission monitoring and air cleaning device inspections using a format similar to that shown in Figures 1 and 2 and include the following:

(i) Date and time of each inspection.

(ii) Presence or absence of visible emissions.

(iii) Condition of fabric filters, including presence of any tears, holes, and abrasions.

(iv) Presence of dust deposits on clean side of fabric filters.

(v) Brief description of corrective actions taken, including date and time.

(vi) Daily hours of operation for each air cleaning device.

(6) Furnish upon request and make available at the affected facility during normal business hours for inspection by the Administrator, all records required under this section.

(7) Retain a copy of all monitoring and inspection records for at least 2 years.

(8) Submit semiannually a copy of the visible emission monitoring records to the Administrator if visible emission occurred during the report period. Semiannual reports shall be postmarked by the 30th day following the end of the six-month period.

[49 FR 13661, Apr. 5, 1984. Redesignated and amended at 55 FR 48424, Nov. 20, 1991; 64 FR 7467, Feb. 12, 1999]

§ 61.150 Standard for waste disposal for manufacturing, fabricating, demolition, renovation, and spraying operations.

Each owner or operator of any source covered under the provisions of §§61.144, 61.145, 61.146, and 61.147 shall comply with the following provisions:

(a) Discharge no visible emissions to the outside air during the collection, processing (including incineration), packaging, or transporting of any asbestos-containing waste material generated by the source, or use one of the emission control and waste treatment methods specified in paragraphs (a) (1) through (4) of this section.

(1) Adequately wet asbestos-containing waste material as follows:

(i) Mix control device asbestos waste to form a slurry; adequately wet other asbestos-containing waste material; and

(ii) Discharge no visible emissions to the outside air from collection, mixing, wetting, and handling operations, or use the methods specified by §61.152 to clean emissions containing particulate asbestos material before they escape to, or are vented to, the outside air; and

(iii) After wetting, seal all asbestos-containing waste material in leak-tight containers while wet; or, for materials that will not fit into containers without additional breaking, put materials into leak-tight wrapping; and

(iv) Label the containers or wrapped materials specified in paragraph (a)(1)(iii) of this section using warning labels specified by Occupational Safety and Health Standards of the Department of Labor, Occupational Safety and Health Administration (OSHA) under 29 CFR 1910.1001(j)(4) or 1926.1101(k)(8). The labels shall be printed in letters of sufficient size and contrast so as to be readily visible and legible.

(v) For asbestos-containing waste material to be transported off the facility site, label containers or wrapped materials with the name of the waste generator and the location at which the waste was generated.

(2) Process asbestos-containing waste material into nonfriable forms as follows:

(i) Form all asbestos-containing waste material into nonfriable pellets or other shapes;

(ii) Discharge no visible emissions to the outside air from collection and processing operations, including incineration, or use the method specified by §61.152 to clean emissions containing particulate asbestos material before they escape to, or are vented to, the outside air.

(3) For facilities demolished where the RACM is not removed prior to demolition according to §§61.145(c)(1) (i), (ii), (iii), and (iv) or for facilities demolished according to §61.145(c)(9), adequately wet asbestos-containing waste material at all times after demolition and keep wet during handling and loading for transport to a disposal site. Asbestos-containing waste materials covered by this paragraph do not have to be sealed in leak-tight containers or wrapping but may be transported and disposed of in bulk.

(4) Use an alternative emission control and waste treatment method that has received prior approval by the Administrator according to the procedure described in §61.149(c)(2).

(5) As applied to demolition and renovation, the requirements of paragraph (a) of this section do not apply to Category I nonfriable ACM waste and Category II nonfriable ACM waste that did not become crumbled, pulverized, or reduced to powder.

(b) All asbestos-containing waste material shall be deposited as soon as is practical by the waste generator at:

(1) A waste disposal site operated in accordance with the provisions of §61.154, or

(2) An EPA-approved site that converts RACM and asbestos-containing waste material into nonasbestos (asbestos-free) material according to the provisions of §61.155.

(3) The requirements of paragraph (b) of this section do not apply to Category I nonfriable ACM that is not RACM.

(c) Mark vehicles used to transport asbestos-containing waste material during the loading and unloading of waste so that the signs are visible. The markings must conform to the requirements of §§61.149(d)(1) (i), (ii), and (iii).

(d) For all asbestos-containing waste material transported off the facility site:

(1) Maintain waste shipment records, using a form similar to that shown in Figure 4, and include the following information:

(i) The name, address, and telephone number of the waste generator.

(ii) The name and address of the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program.

(iii) The approximate quantity in cubic meters (cubic yards).

(iv) The name and telephone number of the disposal site operator.

(v) The name and physical site location of the disposal site.

(vi) The date transported.

(vii) The name, address, and telephone number of the transporter(s).

(viii) A certification that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

(2) Provide a copy of the waste shipment record, described in paragraph (d)(1) of this section, to the disposal site owners or operators at the same time as the asbestos-containing waste material is delivered to the disposal site.

(3) For waste shipments where a copy of the waste shipment record, signed by the owner or operator of the designated disposal site, is not received by the waste generator within 35 days of the date the waste was accepted by the initial transporter, contact the transporter and/or the owner or operator of the designated disposal site to determine the status of the waste shipment.

(4) Report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator if a copy of the waste shipment record, signed by the owner or operator of the designated waste disposal site, is not received by the waste generator within 45 days of the date the waste was accepted by the initial transporter. Include in the report the following information:

(i) A copy of the waste shipment record for which a confirmation of delivery was not received, and

(ii) A cover letter signed by the waste generator explaining the efforts taken to locate the asbestos waste shipment and the results of those efforts.

(5) Retain a copy of all waste shipment records, including a copy of the waste shipment record signed by the owner or operator of the designated waste disposal site, for at least 2 years.

(e) Furnish upon request, and make available for inspection by the Administrator, all records required under this section.

[55 FR 48429, Nov. 20, 1990; 56 FR 1669, Jan. 16, 1991, as amended at 68 FR 54793, Sept. 18, 2003]

§ 61.153 Reporting.

(a) Any new source to which this subpart applies (with the exception of sources subject to §§61.143, 61.145, 61.146, and 61.148), which has an initial startup date preceding the effective date of this revision, shall provide the following information to the Administrator postmarked or delivered within 90 days of the effective date. In the case of a new source that does not have an initial startup date preceding the effective date, the information shall be provided, postmarked or delivered, within 90 days of the initial startup date. Any owner or operator of an existing source shall provide the following information to the Administrator within 90 days of the effective date of this subpart unless the owner or operator of the existing source has previously provided this information to the Administrator. Any changes in the information provided by any existing source shall be provided to the Administrator, postmarked or delivered, within 30 days after the change.

(1) A description of the emission control equipment used for each process; and

(i) If the fabric device uses a woven fabric, the airflow permeability in $\text{m}^3/\text{min}/\text{m}^2$ and; if the fabric is synthetic, whether the fill yarn is spun or not spun; and

(ii) If the fabric filter device uses a felted fabric, the density in g/m^2 , the minimum thickness in inches, and the airflow permeability in $\text{m}^3/\text{min}/\text{m}^2$.

(2) If a fabric filter device is used to control emissions,

(i) The airflow permeability in $\text{m}^3/\text{min}/\text{m}^2$ ($\text{ft}^3/\text{min}/\text{ft}^2$) if the fabric filter device uses a woven fabric, and, if the fabric is synthetic, whether the fill yarn is spun or not spun; and

(ii) If the fabric filter device uses a felted fabric, the density in g/m^2 (oz/yd^2), the minimum thickness in millimeters (inches), and the airflow permeability in $\text{m}^3/\text{min}/\text{m}^2$ ($\text{ft}^3/\text{min}/\text{ft}^2$).

(3) If a HEPA filter is used to control emissions, the certified efficiency.

(4) For sources subject to §§61.149 and 61.150:

(i) A brief description of each process that generates asbestos-containing waste material; and

(ii) The average volume of asbestos-containing waste material disposed of, measured in m^3/day (yd^3/day); and

(iii) The emission control methods used in all stages of waste disposal; and

(iv) The type of disposal site or incineration site used for ultimate disposal, the name of the site operator, and the name and location of the disposal site.

(5) For sources subject to §§61.151 and 61.154:

(i) A brief description of the site; and

(ii) The method or methods used to comply with the standard, or alternative procedures to be used.

(b) The information required by paragraph (a) of this section must accompany the information required by §61.10. Active waste disposal sites subject to §61.154 shall also comply with this provision. Roadways, demolition and renovation, spraying, and insulating materials are exempted from the requirements of §61.10(a). The information described in this section must be reported using the format of appendix A of this part as a guide.

(Sec. 114. Clean Air Act as amended (42 U.S.C. 7414))

[49 FR 13661, Apr. 5, 1984. Redesignated and amended at 55 FR 48430, Nov. 20, 1990; 56 FR 1669, Jan. 16, 1991]

§ 61.156 Cross-reference to other asbestos regulations.

In addition to this subpart, the regulations referenced in Table 1 also apply to asbestos and may be applicable to those sources specified in §§61.142 through 61.151, 61.154, and 61.155 of this subpart. These cross-references are presented for the reader's information and to promote compliance with the cited regulations.

Table 1—Cross-Reference to Other Asbestos Regulations

Agency	CFR citation	Comment
EPA	40 CFR part 763, subpart E	Requires schools to inspect for asbestos and implement response actions and submit asbestos management plans to States. Specifies use of accredited inspectors, air sampling methods, and waste disposal procedures.
	40 CFR part 427	Effluent standards for asbestos manufacturing source categories.
	40 CFR part 763, subpart G	Protects public employees performing asbestos abatement work in States not covered by OSHA asbestos standard.
OSHA	29 CFR 1910.1001	Worker protection measures-engineering controls, worker training, labeling, respiratory protection, bagging of waste, permissible exposure level.
	29 CFR 1926.1101	Worker protection measures for all construction work involving asbestos, including demolition and renovation-work practices, worker training, bagging of waste, permissible exposure level.
MSHA	30 CFR part 56, subpart D	Specifies exposure limits, engineering controls, and respiratory protection measures for workers in surface mines.
	30 CFR part 57, subpart D	Specifies exposure limits, engineering controls, and respiratory protection measures for workers in underground mines.
DOT	49 CFR parts 171 and 172	Regulates the transportation of asbestos-containing waste material. Requires waste containment and shipping papers.

[55 FR 48432, Nov. 20, 1990, as amended at 60 FR 31920, June 19, 1995; 68 FR 54793, Sept. 18, 2003; 69 FR 43324, July 20, 2004]

§ 61.157 Delegation of authority.

(a) In delegating implementation and enforcement authority to a State under section 112(d) of the Act, the authorities contained in paragraph (b) of this section shall be retained by the Administrator and not transferred to a State.

(b) Authorities that will not be delegated to States:

(1) Section 61.149(c)(2)

(2) Section 61.150(a)(4)

(3) Section 61.151(c)

(4) Section 61.152(b)(3)

(5) Section 61.154(d)

(6) Section 61.155(a).

[55 FR 48433, Nov. 20, 1990]

Date of inspection (m/day/yr)	Time of inspection (a.m./p.m.)	Air cleaning device or fugitive source designation or number	Visible emissions observed (yes/no), corrective action taken	Daily operating hours	Inspector's initials

Figure 1. Record of Visible Emission Monitoring

1. Air cleaning device designation or number	_____	_____	_____	_____
2. Date of inspection	_____	_____	_____	_____
3. Time of inspection	_____	_____	_____	_____
4. Is air cleaning device operating properly (yes/no)	_____	_____	_____	_____
5. Tears, holes, or abrasions in fabric filter (yes/no)	_____	_____	_____	_____
6. Dust on clean side of fabric filters (yes/no)	_____	_____	_____	_____
7. Other signs of malfunctions or potential malfunctions (yes/no)	_____	_____	_____	_____
8. Describe other malfunctions or signs of potential malfunctions.	_____ _____ _____			
9. Describe corrective action(s) taken.	_____ _____ _____			
10. Date and time corrective action taken	_____	_____	_____	_____
11. Inspected by	_____			
	(Print/Type Name)	(Title)	(Signature)	(Date)
	_____	_____	_____	_____
	(Print/Type Name)	(Title)	(Signature)	(Date)

Figure 2. Air Cleaning Device Inspection Checklist

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (d) Two (2) dip tanks, identified as primary and secondary, each constructed in 1992, each with a maximum throughput rate of 1.929 gallons per hour. The secondary dip tank is only used when the primary dip tank is not working.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-9] [326 IAC 8-1-2(b)]

- (a) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of the coating delivered to the applicator at the dip tanks shall be limited to three and five-tenths (3.5) pounds of VOCs per gallon of coating less water, for air dried or forced warm air dried coatings.
- (b) Pursuant to 326 IAC 8-1-2(b), the dip tanks' VOC emissions shall be limited to no greater than the equivalent emissions of six and seven-tenths (6.7) pounds of VOC per gallon of coating solids for air dried or forced warm air dried coatings, as allowed at 326 IAC 8-1-2(a)(9)(A).

D.2.2 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(f), solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

Compliance Determination Requirements

D.2.3 Volatile Organic Compounds (VOC) [326 IAC 8-1-4] [326 IAC 8-1-2(a)]

- (a) Compliance with the VOC content limitation contained in Condition D.2.1(a) shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.
- (b) Compliance with the equivalent VOC content limitation contained in Condition D.2.1(b) shall be determined pursuant to 326 IAC 8-1-2(a)(9)(B) as follows:
- (1) Calculate the VOC content of a dip coating, expressed in units of weight of VOC per volume of coating solids, on a thirty (30) day rolling average basis using the following equation:

$$VOC_A = (3 (W_{oi} \times D_{ci} \times Q_i) + 3 (W_{oj} \times D_{dj} \times Q_j)) / (3 (V_{ni} \times Q_i))$$

Where:

VOC_A = The as-applied, VOC content in pound VOC per gallon (lb VOC/gal) of coating solids for a dip coating, calculated on a thirty (30) day rolling average basis.

W_{oi} = Percent VOC by weight of each as supplied coating (i) added to the dip coating process, expressed as a decimal fraction (that is 55% = 0.55).

D_{ci} = Density of each as supplied coating (i) added to the dip coating process, in pounds per gallon.

Q_i = Quantity of each as supplied coating (i) added to the dip coating process, in gallons.

V_{ni} = Percent solids by volume of each as supplied coating (i) added to the dip coating process, expressed as a decimal fraction.

W_{oJ} = Percent VOC by weight of each thinner (J) added to the dip coating process, expressed as a decimal fraction.

D_{dJ} = Density of each thinner (J) added to the dip coating process, in pounds per gallon.

Q_J = Quantity of each thinner (J) added to the dip coating process, in gallons.

- (2) Maintain the records specified at Condition D.2.4(b) on a daily basis for each VOC-containing coating, solvent, or other material added to the tanks.

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

There are no specific compliance monitoring requirements applicable to these facilities.

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

D.2.4 Record Keeping Requirements

- (a) To document compliance with Condition D.2.1(a), the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC emission limit established in Condition D.2.1(a).
- (1) The VOC content of each coating material and solvent used.
 - (2) The amount of coating material and solvent less water used on a monthly basis.
 - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
 - (3) A log of the dates of use;
 - (4) The cleanup solvent usage for each month;
 - (5) The total VOC usage for each month; and
 - (6) The weight of VOCs emitted for compliance period.

- (b) To document compliance with Condition D.2.1(b), the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken daily and shall be complete and sufficient to establish compliance with the VOC emission limit established in Condition D.2.1(b).
 - (1) The following parameters for each coating, thinner, or other material as supplied:
 - (A) The coating, thinner, or other material identification number.
 - (B) The volume used.
 - (C) The mix ratio.
 - (D) The density or specific gravity.
 - (E) The weight percent of total volatiles, water, solids, and exempt solvents.
 - (F) The volume percent of solids.
 - (2) The VOC content of each coating and thinner as supplied.
 - (3) The VOC content of each as-applied coating.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

There are no specific reporting requirements applicable to these facilities.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

The following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(12):

One (1) burnoff oven, constructed in 1992, with a maximum heat input rate of 0.75 million British thermal units (MMBtu) per hour, exhausting through stack ID #7. [326 IAC 4-2-2] [326 IAC 9-1]

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 Incinerators [326 IAC 4-2-2]

Pursuant to 326 IAC 4-2-2 (Incinerators: Requirements), the propane fired burn-off oven shall comply with the following:

- (a) The incinerator shall comply with the following requirements:
 - (1) Consist of primary and secondary chambers or the equivalent.
 - (2) Be equipped with a primary burner unless burning only wood products.
 - (3) Comply with 326 IAC 5-1 and 326 IAC 2.
 - (4) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in paragraph (c) of this condition.
 - (5) Not emit particulate matter in excess of three-tenths (0.3) pound of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with a maximum solid waste capacity of greater than or equal to two hundred (200) pounds per hour.
 - (6) If any of the requirements of (1) through (5) are not met, then the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.
- (b) An incinerator is exempt from paragraph (a)(5) of this condition if subject to a more stringent particulate matter emission limit in 40 CFR 52 Subpart P, State Implementation Plan for Indiana.
- (c) A Permittee developing an operation and maintenance plan pursuant to paragraph (a)(4) of this condition must comply with the following:
 - (1) The operation and maintenance plan must be designed to meet the particulate matter emission limitation specified in paragraph (a)(5) of this condition and include the following:
 - (A) Procedures for receiving, handling, and charging waste.
 - (B) Procedures for incinerator startup and shutdown.
 - (C) Procedures for responding to a malfunction.

- (D) Procedures for maintaining proper combustion air supply levels.
 - (E) Procedures for operating the incinerator and associated air pollution control systems.
 - (F) Procedures for handling ash.
 - (G) A list of wastes that can be burned in the incinerator.
- (2) Each incinerator operator shall review the plan before initial implementation of the operation and maintenance plan and annually thereafter.
 - (3) The operation and maintenance plan must be readily accessible to incinerator operators.
 - (4) The Permittee shall notify the department, in writing, thirty (30) days after the operation and maintenance plan is initially developed pursuant to this section.
- (d) The Permittee shall make the manufacturer's specifications or the operation and maintenance plan available to the department upon request.

D.3.2 Carbon Monoxide Emission Limits [326 IAC 9-1]

Pursuant to 326 IAC 9-1-2(a)(3) (Refuse Incineration and Refuse Burning Equipment), the propane fired burn-off oven shall not operate unless the waste gas stream is burned in one (1) of the following:

- (a) Direct-flame afterburner.
- (b) Secondary chamber.
- (c) Alternatives to the carbon monoxide control methods specified in subsection (a) may only be used if submitted as an amendment to the state implementation plan (SIP) and approved by U.S. EPA.

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

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

Source Name: D & D Brake Sales, Inc.
Source Address: State Road 234 & Mohawk Road, Fortville, Indiana 46040
Mailing Address: P.O. Box 160, Fortville, Indiana 46040
FESOP Permit No.: F059-24014-00012

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

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

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

Source Name: D & D Brake Sales, Inc.
Source Address: State Road 234 & Mohawk Road, Fortville, Indiana 46040
Mailing Address: P.O. Box 160, Fortville, Indiana 46040
FESOP Permit No.: F059-24014-00012

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- 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
 - 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
 FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: D & D Brake Sales, Inc.
 Source Address: State Road 234 & Mohawk Road, Fortville, Indiana 46040
 Mailing Address: P.O. Box 160, Fortville, Indiana 46040
 FESOP Permit No.: F059-24014-00012

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 ΔNo 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 Federally Enforceable State Operating Permit
(FESOP) Renewal

Source Background and Description

Source Name:	D & D Brake Sales, Inc.
Source Location:	State Road 234 and Mohawk Road, Fortville, IN 46040
County:	Hancock
SIC Code:	3069, 7539
Permit Renewal No.:	F059-24014-00012
Permit Reviewer:	Michael Hirtler / EVP

On November 21, 2007, the Office of Air Quality (OAQ) had a notice published in the Daily Reporter, Greenfield, Indiana, stating that D & D Brake Sales, Inc. had applied for a Federally Enforceable State Operating Permit (FESOP) renewal to operate a brake shoe rebuild and assembly source. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

No comments were received by IDEM, OAQ as pertains to this FESOP renewal. However, on December 16, 2007, rule revisions to 325 IAC 2-1.1-9 and 326 IAC 2-8-4 were finalized allowing for ten (10) year permit terms on FESOP renewals. Accordingly, Condition B.2 has been revised to reflect the ten (10) year term of this permit (additions shown in bold and deletions in ~~strikeout~~):

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

-
- (a) This permit, F059-24014-00012, is issued for a fixed term of ~~five (5)~~ **ten (10)** years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	D & D Brake Sales, Inc.
Source Location:	State Road 234 and Mohawk Road, Fortville, IN 46040
County:	Hancock
SIC Code:	3069, 7539
Permit Renewal No.:	F059-24014-00012
Permit Reviewer:	Michael Hirtler / EVP

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from D & D Brake Sales, Inc. relating to the operation of a brake shoe rebuild and assembly source.

History

On November 29, 2006, D & D Brake Sales, Inc. submitted an application to the OAQ requesting to renew its operating permit. D & D Brake Sales, Inc. was issued an initial Part 70 permit (No. 059-9982-00012) on June 26, 2000. The Part 70 permit was transitioned to an initial FESOP (No. 059-14886-00012) on April 25, 2002.

Permitted Emission Units and Pollution Control Equipment

- (a) One (1) brake liner shot blasting operation, consisting of two (2) Pangborn shot blasters identified as #1 and #2, constructed in 1992, with a total maximum capacity of blasting 1,400 pounds of brake shoes per hour, utilizing one (1) common baghouse (ID #1) for particulate control, and exhausting through one (1) stack ID #1.
- Under the National Emissions Standards for Hazardous Air Pollutants, National Emission Standard for Asbestos [40 CFR Part 61, Subpart M], the affected fabricating operations using commercial asbestos that are subject to this rule are the brake liner shot blasting and brake liner chopping operations.
- (b) One (1) brake liner chopping operation, consisting of three (3) deliner choppers, constructed in 1992, with a total maximum throughput capacity of 5,625 brake shoes per hour, utilizing one (1) common baghouse (ID #3) for particulate control, exhausting through one (1) stack ID #3.
- Under the National Emissions Standards for Hazardous Air Pollutants, National Emission Standard for Asbestos [40 CFR Part 61, Subpart M], the affected fabricating operations using commercial asbestos that are subject to this rule are the brake liner shot blasting and brake liner chopping operations.
- (c) One (1) brake liner grinding operation, consisting of three (3) grinders identified as #1, #3, and #4, constructed in 1992, with a total maximum grinding rate of 1,400 pounds per hour, all utilizing one (1) common baghouse (ID #2) and a HEPA filter for particulate control, exhausting through one (1) stack ID #2.

- (d) Two (2) dip tanks, identified as primary and secondary, each constructed in 1992, each with a maximum throughput rate of 1.929 gallons per hour. The secondary dip tank is only used when the primary dip tank is not working.

Emission Units and Pollution Control Equipment Constructed and/or Operated without a Permit

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

Emission Units and Pollution Control Equipment Removed From the Source

The following emission units have been removed from the source since the initial FESOP No. 059-14886-00012 issuance date of April 25, 2002:

- (a) One grinder from the (1) brake liner grinding operation, previously identified as grinder #2, removed from service during 2004.
- (b) One (1) bonding oven, previously identified as bonding oven #2, removed from service during 2003. This facility was previously considered as an insignificant activity, pursuant to 326 IAC 2-7-1(21).

Insignificant Activities

- (a) Propane or liquified petroleum gas, or butane-fired combustion sources with heat input equal to or less than six (6) million (6,000,000) British thermal units per hour, including:
 - (1) One (1) burnoff oven, constructed in 1992, with a maximum heat input rate of 0.75 million British thermal units (MMBtu) per hour, exhausting through stack ID #7. [326 IAC 4-2-2] [326 IAC 9-1]
 - (2) Two (2) bonding ovens, identified as #1 and #3, each constructed in 1992, with respective maximum heat input rates of 0.5 and 1.5 MMBtu per hour, exhausting through respective stacks #5 and #6. Bonding oven #1 is equipped with a micro air filter, but no control efficiency is assumed for particulate matter emissions reduction. Bonding oven #3 is equipped with a 0.03 MMBtu per hour afterburner, but no control efficiency is assumed for carbon monoxide (CO) or volatile organic compounds (VOC) emissions reduction.
- (b) Vessel storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (c) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings.
- (d) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment.
- (e) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (f) One (1) propane storage tank, identified as #1, constructed in 1992, with a maximum storage capacity of 15,042 gallons.

Existing Approvals

Since the issuance of the FESOP (059-14886-0001) on April 25, 2002, no additional approvals have been issued to this source.

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

The following terms and conditions from previous approvals have been revised or removed in this FESOP Renewal:

(a) Condition D.1.1, Paragraphs (b) and (c), Particulate Matter

Reason revised: Paragraphs (b) and (c) respectively refer to Conditions 4 and 5 of initial construction permit CP-059-2477-00012, issued on August 26, 1992, stating that these original conditions are no longer applicable. The original conditions specified that the source was deemed to be in compliance with the allowable particulate limits when complying with applicable opacity limits. Condition D.1.1, paragraphs (b) and (c) are deemed to be irrelevant because this source must comply with the applicable provisions of 326 IAC 6-3-2 (particulate); 326 IAC 5-1 (opacity); and 40 CFR 61, Subpart M (asbestos; see Federal Rule Applicability section of this document), as incorporated in this renewal permit. Therefore, Condition D.1.1, paragraphs (b) and (c) are not included in this renewal permit.

(b) Conditions D.1.7, Visible Emission Notations, and D.1.8, Parametric Monitoring

Reason revised: The monitoring frequency has been changed from "once per shift" to "once per day." IDEM has determined that daily monitoring is sufficient for this type of process.

(c) Condition D.2.1, Volatile Organic Compounds (VOC)

Reason revised: This condition establishes the dip tank VOC emission limit pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) at 4.3 pounds of VOC per gallon of coating less water, for clear coatings. The applied coating is a rust inhibitor, which is not a clear coating. As such, the appropriate limit should be 3.5 pounds of VOC per gallon of coating less water, for air dried coatings. Based on the MSDS submitted by the source and calculations made, the dip tanks remain in compliance with this revised lower allowable emission limit (see Appendix A).

Additionally, the statement in Condition D.2.1 relating to CP-059-2668-00012, issued on October 21, 1992, is not included in this renewal permit. The statement indicated that Operating Condition #5 from CP-059-2668-00012, which established that VOC emissions from the secondary dip tank shall be limited to 15 pounds per day, is not applicable because the secondary dip tank will only be used if the primary dip tank is not in use; and both tanks are subject to 326 IAC 8-2-9 (Miscellaneous Metal Coating). Since the rule requirements are included in this operating permit for the two dip tanks, the statement is extraneous and is removed.

(d) Condition D.1.9, Baghouse Inspections

Reason not incorporated: IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of baghouse inspections and the details regarding which components of the baghouse should be inspected, the condition requiring such inspections has been removed from the permit. In addition, the requirement to keep records of the inspections has been removed.

Enforcement Issue

IDEM is aware that the Permittee is not in compliance with the provisions of 326 IAC 2-8-9 and 326 IAC 2-8-3(h) which require that a timely and complete renewal application be submitted at least nine (9) months prior to the date of expiration of the source's existing permit. The existing FESOP (059-14886-0001) expired on April 25, 2007. Nine months prior to the expiration date is July 29, 2006. The renewal application was received at IDEM, OAQ on November 29, 2006. IDEM is reviewing this matter and will take appropriate action.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (inches)	Flow Rate (acfm)	Temperature (°F)
1	Shot blast dust collector exhaust	15	12 x 24	2475	Ambient
2	Grinding dust collector exhaust	15	12 x 24	3708	Ambient
3	Deliner chopper dust collector exhaust	15	12 x 24	4944	Ambient
5	Bonding Oven #1	28	6	250	420
6	Bonding Oven #3	28	6	250	420
7	Burnoff Oven	32.833	16	660	1500

Emission Calculations

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

County Attainment Status

The source is located in Hancock County

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

Note: On November 8, 2007 the Indiana Air Pollution Control Board finalized a temporary emergency rule to redesignate Clark, Floyd, Elkhart, St. Joseph, LaPorte, Boone, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, and Shelby Counties as attainment for the 8-hour ozone standard.

- (a) Hancock 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.

- (b) 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 emissions and NO_x emissions are considered when evaluating the rule applicability relating to ozone standards.

On November 8, 2007, a temporary emergency rule took effect redesignating Hancock County to attainment for the eight-hour ozone standard. The Indiana Air Pollution Control Board has begun the process for a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 should take effect prior to the expiration of the emergency rule. Therefore, VOC emissions 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.

- (c) Hancock 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.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (e) Fugitive Emissions
 This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3; however, there is an applicable National Emission Standard for Hazardous Air Pollutants that was in effect on August 7, 1980, therefore fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	28,776.7
PM-10	28,776.7
SO ₂	0.01
VOC	8.15
CO	0.43
NO _x	2.53

HAPs	tons/year
formaldehyde	0.17
phenol	0.86
asbestos	1,485.6
Total	1,486.63

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀ is equal to or greater than 100 tons per year. The source is subject to the provisions of 326 IAC 2-7. However, the source has agreed to limit their PM₁₀ emissions to less than Title V levels, therefore the source will be issued a FESOP.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants are less than 100 tons per year.

- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. However, the source has agreed to limit their single HAP emissions and total HAP emissions below Title V limits. Therefore, the source will be issued a FESOP.
- (d) Fugitive Emissions
 This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-7; however, there is an applicable National Emission Standard for Hazardous Air Pollutants that was in effect on August 7, 1980, therefore fugitive emissions are counted toward the determination of Part 70 applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2001 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	4
PM-10	4
SO ₂	0
VOC	4
CO	0
NO _x	0
HAP (specify)	None specified

Potential to Emit After Issuance

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

Process/facility	Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
dip tank	0.0	0.0	0.00	8.08	0.00	0.00	1.03 (phenol)
shot blasting operation (2 blasters to baghouse ID#1)	14.14 ⁽¹⁾	14.14 ⁽¹⁾	0.00	0.00	0.00	0.00	4.99 ⁽³⁾ (asbestos)
grinding operation (3 grinders to baghouse ID#2)	14.14 ⁽¹⁾	14.14 ⁽¹⁾	0.00	0.00	0.00	0.00	0.00
deliner chopping operation (3 choppers to baghouse ID#3)	17.20	17.20	0.00	0.00	0.00	0.00	4.99 ⁽³⁾ (asbestos)
propane combustion units ⁽²⁾	0.08	0.08	0.01	0.07	0.43	2.53	negligible
Total Emissions	45.56	45.56	0.01	8.15	0.43	2.53	11.01 (total)
Major Source Threshold	250	250	250	100	250	100	-

1. Reflects 326 IAC 6-3-2(e) allowable emission rate (lb/hr), extrapolated to 8760 hours/year operation; and PM-10 conservatively set equal to PM.
 2. Insignificant activity.
 3. Reflects hourly limitations of Condition D.1.3, extrapolated to 8760 hours/year operation.

- (a) This existing stationary source is not major for PSD because the emissions of each criteria pollutant are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.
- (b) Fugitive Emissions
This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, however, there is an applicable National Emission Standard for Hazardous Air Pollutants that was in effect on August 7, 1980, therefore fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

Federal Rule Applicability

The following federal rules are applicable to the source:

- (a) The requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this source. Such requirements apply to a pollutant-specific emissions unit (PSEU), as defined in 40 CFR 64.1, at a major source that is required to obtain a Part 70 or 71 permit if the PSEU:
 - (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;
 - (2) is subject to an emission limitation or standard for that pollutant; and
 - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

This permit is being issued as a FESOP and therefore the requirements of 40 CFR 64, Compliance Assurance Monitoring, are not applicable to this source.

- (b) The 15,042 gallon propane storage tank, identified as #1, constructed in 1992, is not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.60.110, Subpart Kb). Pursuant to 40 CFR 60.111b (d)(2) (Applicability), Subpart Kb does not apply to pressure vessels designed to operate in excess of 204.9 kPa and without emissions to the atmosphere. This storage tank contains liquified propane fuel at a pressure well in excess of 204.9 kPa and does not exhaust to the atmosphere (at least 250 psi, equivalent to about 1,702 kPa, based on ASME standards). Therefore, the requirements of this rule do not apply to this tank.
- (c) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.
- (d) This source is subject to the National Emission Standards for Hazardous Air Pollutants, National Emission Standard for Asbestos (40 CFR 61.140, Subpart M), which is incorporated by reference as 326 IAC 14-2-1, because this source conducts fabricating operations of manufactured products that contain commercial asbestos. Linings from old brake shoes received at the source for rebuilding may contain asbestos. New brake shoe linings purchased by the source for placement into the rebuilt shoes during the assembly process do not contain asbestos. Therefore, the brake liner grinding operation does not meet the definition of *fabricating*, pursuant to 40 CFR 61.141. The brake liner shot blasting and deliner chopping operations involve the use of old brake shoes; therefore they do meet the definition of *fabricating* and are subject to the applicable rule requirements for *fabricating operations*.

Pursuant to 40 CFR 61.147(a), the Permittee has chosen to comply with the requirements of 40 CFR 61, Subpart M for *fabricating operations* by ensuring discharge of no visible emissions to the outside air from related equipment and operations. The source continues to use high efficiency dust collection equipment.

Nonapplicable portions of the NESHAP will not be included in the permit. This source is subject to the following portions of 40 CFR 61, Subpart M:

- (1) 40 CFR 61.140.
- (2) 40 CFR 61.141.
- (3) 40 CFR 61.147(a)(2).
- (4) 40 CFR 61.147(b)(1).
- (5) 40 CFR 61.147(b)(3).
- (6) 40 CFR 61.147(b)(4).
- (7) 40 CFR 61.147(b)(5).
- (8) 40 CFR 61.147(b)(6).
- (9) 40 CFR 61.147(b)(7).
- (10) 40 CFR 61.147(b)(8).
- (11) 40 CFR 61.150.
- (12) 40 CFR 61.153.
- (13) 40 CFR 61.156.
- (14) 40 CFR 61.157.

The provisions of 40 CFR 61 Subpart A – General Provisions, which are incorporated as 326 IAC 14-1, apply to the facilities described in this section except when otherwise specified in 40 CFR 61, Subpart M.

- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Friction Materials Manufacturing Facilities, 40 CFR 63, Subpart QQQQQ are not included in the permit because this is not a major HAP emitting source, nor does this source meet the definition of a *friction materials manufacturing facility*, per 40 CFR 63.9565.
- (f) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 20 and 40 CFR Part 63) included in this permit renewal.

State Rule Applicability - Entire Source

326 IAC 1-5-2 (Emergency Reduction Plans)

This rule is not applicable to this FESOP since the source has total allowable PM of less than 100 tons per year.

326 IAC 2-6 (Emission Reporting)

This source is located in Hancock County and the potential to emit of each criteria pollutant is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

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 Exemptions), 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.

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

This existing minor stationary source, constructed after the August 7, 1977 rule applicability date, is not one of the 28 listed source categories. While the source has an unrestricted potential to emit greater than two hundred fifty (250) tons per year of PM and PM₁₀, this source will remain a minor source pursuant to 326 IAC 2-2 (PSD) by continuing to comply with the related federally enforceable limits of 326 IAC 2-8 (FESOP) and 326 IAC 6-3-2(e) (Particulate) specified below.

326 IAC 2-8 (FESOP)

This source is subject to 326 IAC 2-8-4 (FESOP). Pursuant to this rule, the following limits shall apply:

- (a) PM-10 emitted from the process operation control devices shall be limited as follows:
 - (1) The shot blast operation exhausting at baghouse stack ID #1 shall be limited to 4.614 pounds of PM-10 emitted per ton of brake shoes processed. This is equivalent to 3.23 pounds of PM-10 per hour, based on a maximum throughput of 0.7 tons of brake shoes per hour.
 - (2) The brake liner grinding operation exhausting at baghouse and HEPA filter stack ID #2 shall be limited to 4.614 pounds of PM-10 emitted per ton of brake shoes processed. This is equivalent to 3.23 pounds of PM-10 per hour, based on a maximum throughput of 0.7 tons of brake shoes per hour.
 - (3) The deliner chopping operation exhausting at baghouse stack ID #3 shall be limited to 4.192 pounds of PM-10 emitted per ton of brake shoes processed. This is equivalent to 3.93 pounds of PM-10 per hour, based on a maximum throughput of 0.938 tons of brake shoes per hour.
 - (4) Compliance with this condition shall limit the source-wide potential to emit of PM-10 to less than 100 tons per twelve (12) consecutive month period. Therefore, compliance with this condition shall satisfy 326 IAC 2-8-4 (FESOP) and render the requirements of 326 IAC 2-7 (Part 70) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.
- (b) Asbestos, as a single HAP, emitted from the specified process operation control devices shall be limited as follows:
 - (1) The shot blast operation exhausting at baghouse stack ID #1 shall be limited to 1.628 pounds of asbestos emitted per ton of brake shoes cleaned. This is equivalent to 1.14 pounds of asbestos per hour, based on a maximum throughput of 0.7 tons of brake shoes per hour.
 - (2) The deliner chopping operation (3 choppers) exhausting at baghouse stack ID #3 shall be limited to 1.216 pounds of asbestos emitted per ton of brake shoe liners chopped. This is equivalent to 1.14 pounds of asbestos per hour, based on a maximum throughput of 0.938 tons of brake shoes per hour.

- (3) Compliance with this condition shall limit the source-wide potential to emit of a single HAP (as asbestos) to less than 10 tons per twelve (12) consecutive month period. Compliance with this condition shall also limit the source-wide potential to emit of the combined HAPs to less the 25 tons per 12 consecutive month period. Therefore, compliance with this condition shall satisfy 326 IAC 2-8-4 (FESOP) and render the requirements of 326 IAC 2-7 (Part 70) not applicable.

State Rule Applicability – Individual Facilities

326 IAC 2-4.1 (New Source Toxics Control)

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), any process or production unit, which in and of itself emits or has the potential to emit (PTE) 10 tons per year of any HAP or 25 tons per year of the combination of HAP, and is constructed or reconstructed after July 27, 1997, must be controlled using technologies consistent with Maximum Achievable Control Technology (MACT). No facilities with an uncontrolled PTE of 10 tons per year of any single HAP and 25 tons per year of the combination of HAPs have been constructed or reconstructed since July 27, 1997. Therefore, the 326 IAC 2-4.1 does not apply.

326 IAC 4-2-2 (Incinerators: Requirements)

This rule applies to the 0.75 MMBtu/hr natural gas fired burn-off oven. Pursuant to 326 IAC 4-2-2 (Incinerators: Requirements):

- (a) The incinerator shall comply with the following requirements:
 - (1) Consist of primary and secondary chambers or the equivalent.
 - (2) Be equipped with a primary burner unless burning only wood products.
 - (3) Comply with 326 IAC 5-1 and 326 IAC 2.
 - (4) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in paragraph (c) of this condition.
 - (5) Not emit particulate matter in excess of three-tenths (0.3) pound of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with a maximum solid waste capacity of greater than or equal to two hundred (200) pounds per hour.
 - (6) If any of the requirements of (1) through (5) are not met, then the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.
- (b) An incinerator is exempt from paragraph (a)(5) of this condition if subject to a more stringent particulate matter emission limit in 40 CFR 52 Subpart P, State Implementation Plan for Indiana.
- (c) A Permittee developing an operation and maintenance plan pursuant to paragraph (a)(4) of this condition must comply with the following:
 - (1) The operation and maintenance plan must be designed to meet the particulate matter emission limitation specified in paragraph (a)(5) of this condition and include the following:
 - (A) Procedures for receiving, handling, and charging waste.

- (B) Procedures for incinerator startup and shutdown.
 - (C) Procedures for responding to a malfunction.
 - (D) Procedures for maintaining proper combustion air supply levels.
 - (E) Procedures for operating the incinerator and associated air pollution control systems.
 - (F) Procedures for handling ash.
 - (G) A list of wastes that can be burned in the incinerator.
- (2) Each incinerator operator shall review the plan before initial implementation of the operation and maintenance plan and annually thereafter.
 - (3) The operation and maintenance plan must be readily accessible to incinerator operators.
 - (4) The Permittee shall notify the department, in writing, thirty (30) days after the operation and maintenance plan is initially developed pursuant to this section.
- (d) The Permittee shall make the manufacturer's specifications or the operation and maintenance plan available to the department upon request.

Based on calculations made, this facility will be able to comply with 326 IAC 4-2-2 (see Appendix A) for an allowable PM = 0.3 pounds per one thousand (1,000) pounds of dry exhaust gas at standard conditions.

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

Pursuant to 326 IAC 6-3-2(e), the allowable particulate emission rate from the facility control device stacks listed below shall not exceed the specified limitation when operating at the indicated process weight rate. The pounds per hour limitations were 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/Activity	Process Weight Rate (lbs/hr)	Allowable Particulate Emissions (326 IAC 6-3-2) (lb/hr)	Controlled Particulate Emissions* (lb/hr)
Pangborn shot blast operation (2 shot blasters) controlled by baghouse ID#1 (stack #1)	1,400	3.23	1.91
Brake liner grinding operation (3 grinders) controlled by baghouse ID#2 & HEPA Filter (stack #2)	1,400	3.23	0.95
Deliner chopping operation (3 choppers) controlled by baghouse ID#3 (stack #3)	1,875	3.93	3.18

*Taken from Appendix A, page 3 of 4.

Based on calculations made, the facilities will be able to comply with 326 IAC 6-3-2 (see Appendix A). The baghouses shall be in operation at all times the respective facilities are in operation, in order to comply with these stated limits.

326 IAC 8-2-9 (Miscellaneous Metal Coating)

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of the coating delivered to the applicator at the dip tanks shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for air dried coatings.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

Based on the MSDS submitted by the source and calculations made, the dip tanks are in compliance with this requirement.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

Pursuant to 326 IAC 8-9-1, on and after October 1, 1995 stationary vessels used to store volatile organic liquids (VOL) must comply with the requirement of the rule if located in Clark, Floyd, Lake or Porter Counties. Stationary vessels with capacities less than 39,000 gallons are only subject to the reporting and record keeping requirements of the rule. This source is located in Hancock County; and the propane storage tank with a maximum storage capacity of 15,042 gallons is a pressure vessel designed to operate in excess of twenty-nine and four-tenths (29.4) pounds per square inch absolute without emissions to the atmosphere. Therefore, this rule is not applicable to this source.

326 IAC 9-1 (Carbon Monoxide Emission Limits)

This rule is applicable to the 0.75 MMBtu/hr propane-fired burn off oven, which is an insignificant activity. The unit was constructed in 1992, after the March 21, 1972 rule applicability date; and it is used to burn-off the residue (i.e., refuse) that remains on the old brake shoes after abrasive blasting/deliner chopping, and prior to attachment of new brake liners. Pursuant to 326 IAC 9-1-2(a)(3), the propane fired burn-off oven shall not operate unless the waste gas stream is burned in one (1) of the following:

- (a) Direct-flame afterburner.
- (b) Secondary chamber.
- (c) Alternatives to the carbon monoxide control methods specified in subsection (a) may only be used if submitted as an amendment to the state implementation plan (SIP) and approved by U.S. EPA.

Compliance Determination and Monitoring Requirements

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

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

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

The shot blasting operation (two (2) shot blasters), the brake liner grinding operation (three (3) grinders), and the deliner chopping operation (three (3) choppers) have applicable compliance determination conditions as specified below:

Control	Parameter	Frequency	Range	Excursions and Exceedances
Brake Liner Shotblasting Baghouse (ID #1)	Water Pressure Drop	Daily	3 to 6 inches	Response Steps
	Visible Emissions		Normal-Abnormal	
Brake Liner Grinding Baghouse (ID #2)	Water Pressure Drop	Daily	3 to 6 inches	Response Steps
	Visible Emissions		Normal-Abnormal	
Brake Liner Chopping Baghouse (ID #3)	Water Pressure Drop	Daily	3 to 6 inches	Response Steps
	Visible emissions		Normal-Abnormal	

These monitoring conditions are necessary because the respective baghouses for the shot blasting operation, the brake liner grinding operation, and the deliner chopping operation must operate properly to ensure compliance with 326 IAC 14-2, 40 CFR 61.140, Subpart M (*National Emission Standard for Asbestos*), 326 IAC 6-3-2 (Particulate Emissions Limitations for Manufacturing Processes), and 326 IAC 2-8 (FESOP).

Recommendation

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

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

An application for the purposes of this review was received on November 29, 2006. Additional information was received on October 2, 2007.

Conclusion

The operation of this brake shoe rebuild and assembly source shall be subject to the conditions of the attached FESOP Renewal No. F059-24014-00012.

Appendix A: Emission Calculations

Company Name: D & D Brake Sales, Inc.
Address City IN Zip: State Road 234 & Mohawk Rd., Fortville, IN 46040
FESOP No.: F059-24014-00012
Reviewer: Michael Hirtler / EVP
Date: September 2007

Uncontrolled Potential to Emit (tons/year)						
Emissions Generating Activity						
Pollutant	Surface Coating (Dip Tank)	Shotblasting Operation	Grinding Operation	Deliner Chopping Operation	Propane Combustion (Insignificant Activities)	TOTAL
PM	0.00	5,575.11	13,920.89	9,280.59	0.08	28,776.7
PM10	0.00	5,575.11	13,920.89	9,280.59	0.08	28,776.7
SO2	0.00	0.00	0.00	0.00	0.01	0.01
NOx	0.00	0.00	0.00	0.00	2.53	2.53
VOC	8.08	0.00	0.00	0.00	0.07	8.15
CO	0.00	0.00	0.00	0.00	0.43	0.43
total HAPs	1.03	557.51	0.00	928.06	0.00	1,486.6
worst case single HAP	0.86 (phenol)	557.51 (asbestos)	0.00	928.06 (asbestos)	0.00	1,485.6 (asbestos)
Total emissions based on rated capacity at 8,760 hours/year without controls and limitations.						
Controlled/Limited Potential to Emit (tons/year)						
Emissions Generating Activity						
Pollutant	Surface Coating (Dip Tank)	Shotblasting Operation	Grinding Operation	Deliner Chopping Operation	Propane Combustion (Insignificant Activities)	TOTAL
PM	0.0	14.14	14.14	17.20	0.08	45.56
PM10	0.0	14.14	14.14	17.20	0.08	45.56
SO2	0.0	0.00	0.00	0.00	0.01	0.01
NOx	0.0	0.00	0.00	0.00	2.53	2.53
VOC	8.08	0.00	0.00	0.00	0.07	8.15
CO	0.00	0.00	0.00	0.00	0.43	0.43
total HAPs	1.03	4.99	0.00	4.99	0.00	11.02
worst case single HAP	0.86 (phenol)	4.99 (asbestos)	0.00	4.99 (asbestos)	0.00	9.98 (asbestos)
Total emissions based on rated capacity at 8,760 hours/year, after any enforceable controls and limitations.						

**Appendix A: Emission Calculations
VOC, HAP and Particulate
From Surface Coating Operations**

Company Name: **D & D Brake Sales, Inc.**
Address City IN Zip: **State Road 234 & Mohawk Rd., Fortville, IN 46040**
FESOP No.: **F059-24014-00012**
Reviewer: **Michael Hirtler / EVP**
Date: **September 2007**

Potential Uncontrolled Emissions:																		
Coating Material	Type of Product Being Coated	Density (Lb/Gal)	Weight % Volatile (H2O& Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential ton/yr	lb VOC /gal solids	Transfer Efficiency	
<i>As Supplied - DIP TANK</i>																		
Rust Inhibitor (602-B1)	metal brake shoes	8.14	47.00%	0.00%	47.00%	0.00%	28.88%	0.482	(gal/hr)									
Acetone (non-photochemically reactive diluent)		6.51	100.00%	100.00%	0.00%	0.00%	32.11%	1.447	(gal/hr)									
<i>As Applied - DIP TANK</i>																		
Rust Inhibitor & Acetone Mixture		6.92	84.41%	70.58%	13.83%	0.00%	31.30%	1.929	(gal/hr)	0.96	0.96	1.84	44.28	8.08	0.00	3.06	100%	
Total Uncontrolled Potential to Emit:												1.84	44.28	8.08	0.00			
										12-mos Input Usage Limit	Control Efficiency	Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr			
										VOC	PM							
Total Controlled Potential to Emit:										100.00%	0.00%	0.00	0.00	8.08	0.00			

Methodology:

* Pursuant to 326 IAC 1-2-48, acetone is a nonphotochemically reactive hydrocarbon and the organic content is considered as water for compliance calculation purposes.
Coating "As Applied" computations based on ratio of coatings as 3 parts acetone to 1 part rust inhibitor. There are two (2) dip tanks at this source, identified as primary and secondary, and only one tank is in use at a time.

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids) * Transfer Efficiency
Total = Sum of Worst Coatings per booth + Sum of all solvents used
Controlled VOC Emission Rate = Uncontrolled Emission Rate * (1 - VOC Input Limitation)
Controlled PM Emission Rate = Uncontrolled Emission Rate * (1 - Control Efficiency)

HAP Emission Calculations

Material	Density (Lb/Gal)	Gallons of Material per hour (gal/hr)	Weight % Phenol	Weight % Formaldehyde	Phenol Emissions (ton/yr)	Formaldehyde Emissions (ton/yr)	Total HAP Emissions (ton/yr)
Dip Tank (as applied)	6.92	1.929	1.471%	0.294%	0.86	0.17	1.03

METHODOLOGY

HAPS emission rate (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

Appendix A: Process Emission Calculations

PM/PM10/HAP (as Asbestos)

Company Name: D & D Brake Sales, Inc.
Address City IN Zip: State Road 234 & Mohawk Rd., Fortville, IN 46040
FESOP No.: F059-24014-00012
Reviewer: Michael Hirtler / EVP
Date: September 2007

Emission Unit ¹ Description	Outlet Grain Loading (gr/acf)	Control Device Fan Flow Rate (acfm)	Control Efficiency (%)	Potential PM/PM10 Emission Rate				Process Weight Rate (lb/hr)	326 IAC 6-3-2 PM Emission Rate (lb/hr)	Equivalent 326 IAC 6-3-2 PM Emission Rate (tons per year)
				Before Controls (lb/hr)	Before Controls (tons/yr)	After Controls (lb/hr)	After Controls (tons/yr)			
Pangborn Shotblast Machines #1 & 2 exhausting at one common baghouse ID#1	0.09	2,475	99.85%	1,272.86	5,575.11	1.91	8.36	1,400	3.23	14.14 (will be able to comply)
Grinders #1, 3 & 4 exhausting at one common baghouse ID #2	0.03	3,708	99.97%	3,178.29	13,920.89	0.95	4.18	1,400	3.23	14.14 (will be able to comply)
Deliner Chopping Operation (3 choppers) exhausting at one common baghouse ID #3	0.10	3,708	99.85%	2,118.86	9,280.59	3.18	13.92	1,875	3.93	17.20 (will be able to comply)
Total Potential to Emit PM/PM10:				6,570.00	28,776.60	6.04	26.46			
Total Potential to Emit HAPs (asbestos): ²				339.17	1,485.57	0.51	2.23			
Total Limited Potential to Emit HAPs (asbestos): ³				1.628 lb/ton shoes (shotblast)	1.216 lb/ton shoes (chopping)	4.99 (tons/yr, shotblast)	4.99 (tons/yr, chopping)			

Notes:

- Each shotblaster, grinder & chopper operate as a separate facility. However, the shotblasters are controlled by one (1) common baghouse (ID #1); the grinders are controlled by one (1) common baghouse and HEPA filter (ID#2), and the choppers are controlled by one (1) common baghouse (ID#3). Therefore, compliance with 326 IAC 6-3-2 is evaluated (and demonstrated) at the point of release of each system, i.e., the respective shotblast, grinding and chopping baghouses. Also, PM10 is conservatively assumed equal to PM; therefore, compliance with the allowable PM limitations shall also make the requirements of 326 IAC 2-7 (Part 70) not applicable for source emissions of PM10.
- Based on baghouse dust analysis using EPA Method 600/R-93/116 (i.e., Polarized Light Microscopy), test results were non-detectable for asbestos. Additionally, based on engineering judgment the source has requested an asbestos emission rate at 10 percent of the PM emissions for a conservative emission rate estimate. Asbestos emissions potentially occur when processing old brake shoes only, i.e., chopping & shotblasting operations. The grinding process occurs only during assembly of new brake shoes to remove excess lining material, and new brake shoes do not contain asbestos. Asbestos emissions are regulated pursuant to 40 CFR 61, Subpart M, National Emission Standard for Asbestos.
- Reflects limitations of Condition D.1.3, FESOP No. 059-14886-00012, issued April 25, 2002, as incorporated into this FESOP renewal No. F059-24014-00012.

Methodology:

Potential Uncontrolled Emissions (tons/yr) = Outlet Loading (grains/acf) * Fan Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs / (1 - Control Efficiency)

Potential Controlled Emissions (tons/yr) = Outlet Loading (grains/acf) * Fan Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs

The allowable PM emission rate pursuant to 326 IAC 6-3-2(e), for weight rates up to 60,000 lb/hr is determined using the following formula:

$$E = 4.1 * P^{0.67} \quad \text{where:} \quad E = \text{allowable PM emission rate (lb/hr)}$$

$$P = \text{process weight rate (tons/hr)}$$

Appendix A: Emission Calculations

LPG-Propane - Combustion

(Heat input capacity: > 0.3 MMBtu/hr and < 10 MMBtu/hr)

Company Name: D & D Brake Sales, Inc.
Address City IN Zip: State Road 234 & Mohawk Rd., Fortville, IN 46040
FESOP No.: F059-24014-00012
Reviewer: Michael Hirtler / EVP
Date: September 2007

Heat Input Capacity * Potential Throughput * SO2 Emission factor = 0.10 x S
 MMBtu/hr kgals/year S = Sulfur Content = 1.00 grains/100ft³***
2.78 266.15

Emission Factor in lb/kgal	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
	0.6	0.6	0.1 (0.10S)	19.0	0.5 **TOC value	3.2
Uncontrolled Potential to Emit (tons/yr)	0.08	0.08	0.01	2.53	0.07	0.43

*Includes 2 bonding ovens rated at 0.5 (#1 oven) & 1.5 MMBtu/hr (#3 oven), with a 0.03 MMBtu/hr afterburner on #3 oven; and 1 burn-off oven rated at 0.75 MMBtu/hr.

**VOC factor is reflected as TOC in AP-42, which is conservatively assumed herein. The methane component is 0.2 lb/kgal.

*** Taken from PG&E website for typical total sulfur in propane.

Methodology

Emission Factors are from AP42 (Supplement B 10/96), Table 1.5-1 (SCC #1-02-010-02)

1 gallon of LPG has a heating value of 94,000 Btu

1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.0915 MMBtu

PM emission factor is filterable PM only. PM10 emission factor is assumed to be the same as PM based on a footnote in AP-42 Table 1.5-1, therefore PM10 is filterable only as well.

Uncontrolled Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal) / 2,000 lb/ton (note: an afterburner is installed on Bondtech Oven #3 to control VOC and CO at an estimated 90% control; and a micro air-filter is used to control PM/PM10 from the Grigg Bonding Oven #1 at an estimated 98% control, however, only uncontrolled emissions are presented herein due to the low uncontrolled emission rates from these facilities, and since no allowable emission limitations will apply to the individual facilities.

Burn-off Oven Compliance Calculation for 326 IAC 4-2-2:

Potential PM emissions 0.0049 lb/hr
 Stack gas flow rate 660.00 acfm
 Gas temperature 1500.00 deg F

Q_{std} = Volumetric flow rate at Standard Temperature

Q_{std} = 660 acfm x $\frac{529 \text{ deg R}}{2328}$ = 149.97 dscfm

C_s = PM Concentration

C_s = $\frac{0.00 \text{ lb/hr}}{149.97 \text{ dscfm}}$ x $\frac{7000 \text{ gr/lb}}{60 \text{ min/hr}}$ = 0.004 gr/dscf

Corrected to 50% excess air

C_{s, corrected} = 0.004 gr/dscf x $\frac{(100+0)\%}{150\%}$ = 0.003 gr/dscf

Ideal Gas Law

Specific Volume = $\frac{R \times T}{P \times Mw}$ where
 R = gas constant = $\frac{21.9(\text{in Hg})(\text{ft}^3)}{(\text{lb mol})(\text{deg R})}$
 T = standard temp = 529 deg R
 P = standard pressure = 29.45 in Hg
 Mw = avg molecular weight of air = 29 lb/lbmol

Specific Volume = 13.565 cf/lb air

C_{s, corrected} = 0.003 gr/dscf x 13.565 cf/lb air = 0.035 gr/lb air
 0.035 gr/lb air x 1/7000 lb pm/gr = 0.000005 lb PM/lb dry gas = 0.0049 lb PM/1000 lb dry gas

Maximum allowable particulate emission pursuant to 326 IAC 4-2-2(a)(5)(A) is 0.3 lb PM/1000 lb dry gas.

The incinerator shall be able to comply with 326 IAC 4-2-2.