INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: December 13, 2006

RE: The Flexaust Company, Inc. / 085-23250-00090

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

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted 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, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot 03/23/06

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204-2251
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NEW SOURCE CONSTRUCTION AND MINOR SOURCE OPERATING PERMIT OFFICE OF AIR QUALITY

The Flexaust Company, Inc.
1510 Armstrong Road
Warsaw, Indiana 46581

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-5.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

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

Operation Permit No.: 085-23250-00090	
Original signed by Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: December 13, 2006 Expiration Date: December 13, 2011

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary flexible ductwork manufacturing operation.

Authorized Individual:	Vice President
Source Address:	1510 Armstrong Road, Warsaw, Indiana 46581
Mailing Address:	P.O Box 4275, Warsaw, Indiana 46581
General Source Phone Number:	574-267-7909
SIC Code:	3399
County Location:	Kosciusko
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

(a) One (1) flexible ductwork adhesive assembly unit, identified as ID 200, constructed in 1996, with a maximum capacity of 32.07 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to stack ID 200.

(b) One (1) flexible ductwork adhesive assembly unit, identified as ID 201, constructed in 1996, with a maximum capacity of 32.07 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to stack ID 201.

(c) One (1) flexible ductwork adhesive assembly unit, identified as ID 205, constructed in 1996, with a maximum capacity of 32.07 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to stack ID 205.

(d) One (1) flexible ductwork adhesive assembly unit, identified as ID 206, constructed in 1996, with a maximum capacity of 32.07 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to stack ID 206.

(e) One cuffing station used to attach fabric or felt to ends of ductwork using adhesive, constructed in 1996, with a maximum capacity of 6.75 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to general exhaust B.

(f) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including one die oven and one lab tester, each with a maximum heat input of 7,000 Btu per hour.

(g) One flexible ductwork assembly unit, identified as MG Line, to be constructed in 2006, with a maximum capacity of 32.07 lbs/ hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to general exhaust 06.

(h) One flexible ductwork assembly unit, identified as Tape Line, to be constructed in 2006, with a maximum capacity of 32.07 lbs/ hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to general exhaust 06.

SECTION B GENERAL CONDITIONS

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

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 2-1.1-1) shall prevail.

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

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

B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 when prior to the start of operation, the following requirements are met:

(a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.

(b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.

(c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

B.4 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

(a) This permit, 085-23250-00090, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.5 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.6 Enforceability

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.7 Severability

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.8 Property Rights or Exclusive Privilege

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

B.9 Duty to Provide Information

(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.10 Certification

(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.11 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

(c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.12 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

(a) All terms and conditions of permits established prior to 085-23250-00090 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 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least ninety (90) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.15 Permit Renewal [326 IAC 2-6.1-7]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require 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

Indianapolis, Indiana 46204-2251

(b) A timely renewal application is one that is:

(1) Submitted at least ninety (90) days prior to the date of the expiration of this permit; and

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

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

B.16 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

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

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

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

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.17 Source Modification Requirement

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

B.18 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC13-17-3-2][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 permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air

pollution control equipment), practices, or operations regulated or required under this permit;

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

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

B.19 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
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 notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.20 Annual Fee Payment [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.

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

B.21 Credible Evidence [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 2-6.1-5(a)(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 Permit Revocation [326 IAC 2-1.1-9]

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

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article

C.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 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
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. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.8 Performance Testing [326 IAC 3-6]

(a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than180 days after initial start-up, if specified in Section D of this approval. 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
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.9 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

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

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

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

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

C.12 Instrument Specifications [326 IAC 2-1.1-11]

(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 or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test

(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 and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.14 Malfunctions Report [326 IAC 1-6-2]

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

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present

or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

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

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

(b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) 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).

(d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. 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.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) flexible ductwork adhesive assembly unit, identified as ID 200, constructed in 1996, with a maximum capacity of 32.07 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to stack ID 200.

(b) One (1) flexible ductwork adhesive assembly unit, identified as ID 201, constructed in 1996, with a maximum capacity of 32.07 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to stack ID 201.

(c) One (1) flexible ductwork adhesive assembly unit, identified as ID 205, constructed in 1996, with a maximum capacity of 32.07 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to stack ID 205.

(d) One (1) flexible ductwork adhesive assembly unit, identified as ID 206, constructed in 1996, with a maximum capacity of 32.07 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to stack ID 206.

(e) One cuffing station used to attach fabric or felt to ends of ductwork using adhesive, constructed in 1996, with a maximum capacity of 6.75 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to general exhaust B.

(f) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, include one die oven and one lab tester, each with a maximum heat input of 7,000 Btu per hour.

(g) One flexible ductwork assembly unit, identified as MG Line, to be constructed in 2006, with a maximum capacity of 32.07 lbs/ hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to general exhaust 06.

(h) One flexible ductwork assembly unit, identified as Tape Line, to be constructed in 2006, with a maximum capacity of 32.07 lbs/ hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to general exhaust 06.

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

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

D.1.1 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9, the Permittee shall not allow the discharge into the atmosphere of VOC in excess of three (3.0) pounds of VOC per gallon of coating, excluding water, as delivered to the applicator, from the flexible ductwork assembly lines 200, 201, 205, and 206.

Compliance Determination Requirements

D.1.2 Volatile Organic Compounds (VOC)[326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC content contained in condition D.1.1 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.

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

D.1.3 Record Keeping Requirements

(a) To document compliance with condition D.1.1, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limit established in condition D.1.1.

(1) The VOC content of each coating material and solvent used less water.

(2) The amount of coating material and solvent 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) The monthly cleanup solvent usage; and

(4) The total VOC usage for each month.

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

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

Company Name:	The Flexaust Company, Inc.
Address:	1510 Armstrong Road
City:	Warsaw, Indiana 46581
Phone #:	**(**574) 267-7909
MSOP #:	085-23250-00090

I hereby certify that The Flexaust Company, Inc. is

☐ still in operation.
☐ no longer in operation.

I hereby certify that The Flexaust Company, Inc. is

☐ in compliance with the requirements of MSOP 085-23250-00090.
☐ not in compliance with the requirements of MSOP 085-23250-00090.

Authorized Individual (typed):
Title:
Signature:
Date:

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

Noncompliance:

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-6865

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

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

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

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

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

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

DATE/TIME MALFUNCTION STARTED: _____/_____/ 20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/_____/ 20____ _____ AM/PM

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

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

_____

MEASURES TAKEN TO MINIMIZE EMISSIONS:_____

_____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

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

MALFUNCTION REPORTED BY:_____TITLE:_____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY:_____DATE:_____TIME:_____
*SEE PAGE 2

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

326 IAC 1-6-1 Applicability of rule

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

326 IAC 1-2-39 "Malfunction" definition

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

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

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

_____

_____

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a New Source Construction and Minor Source Operating Permit

Source Background and Description

Source Name:	The Flexaust Company, Inc.
Source Location:	1510 Armstrong Road, Warsaw, Indiana 46581
County:	Kosciusko
SIC Code:	3399
Operation Permit No.:	085-23250-00090
Permit Reviewer:	ERG/TDP

The Office of Air Quality (OAQ) has reviewed an application from The Flexaust Company, Inc. relating to the construction and operation of a stationary flexible ductwork manufacturing operation.

Permitted Emission Units and Pollution Control Equipment

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

(a) One (1) flexible ductwork adhesive assembly unit, identified as ID 200, constructed in 1996, with a maximum capacity of 32.07 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to stack ID 200.

(b) One (1) flexible ductwork adhesive assembly unit, identified as ID 201, constructed in 1996, with a maximum capacity of 32.07 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to stack ID 201.

(c) One (1) flexible ductwork adhesive assembly unit, identified as ID 205, constructed in 1996, with a maximum capacity of 32.07 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to stack ID 205.

(d) One (1) flexible ductwork adhesive assembly unit, identified as ID 206, constructed in 1996, with a maximum capacity of 32.07 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to stack ID 206.

(e) One cuffing station used to attach fabric or felt to ends of ductwork using adhesive, constructed in 1996, with a maximum capacity of 6.75 lbs/hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to general exhaust B.

(f) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including one die oven and one lab tester, each with a maximum heat input of 7,000 Btu per hour.

New Emission Units and Pollution Control Equipment

The Flexaust Company, Inc proposes to add two new production lines and expand the existing production units such that a greater throughput of materials on the existing adhesive and cutting lines will be achieved. This MSOP reflects the increase in projected product use in the existing lines.

(g) One flexible ductwork assembly unit, identified as MG Line, to be constructed in 2006, with a maximum capacity of 32.07 lbs/ hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to general exhaust 06.

(h) One flexible ductwork assembly unit, identified as Tape Line, to be constructed in 2006, with a maximum capacity of 32.07 lbs/ hr of product, utilizing dip coating and flow coating application, using no control equipment, and exhausting to general exhaust 06.

Unpermitted Emission Units and Pollution Control Equipment

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

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

(a) R085-22587-00090, issued on February 22, 2006; and

(b) R085-16473-00090, issued on December 18, 2002.

All conditions from previous approvals were incorporated into this permit.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (ft)	Diameter (ft)	Flow Rate (acfm)	Temperature (^oF)
200	Adhesive Assembly Unit	20’ 3”	1’	1,500	68
201	Adhesive Assembly Unit	18’ 9”	1’	1,500	68
205	Adhesive Assembly Unit	18’ 9”	1’	1,500	68
206	Adhesive Assembly Unit	18’ 8”	1’	1,500	68
General Ex. B	Cuffing Line	21’ 7”	3’	5,000	68
General Ex. B	MG Line	21’ 7”	3’	5,000	68
General Ex. B	Tape Line	21’ 7”	3’	5,000	68

Recommendation

The staff recommends to the Commissioner that the construction and operation 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.

A complete application for the purposes of this review was received on June 20, 2006.

Emission Calculations

See Appendix A of this document for detailed emission calculations (page 1 through 9)

Potential to Emit of the Source Before Controls

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

Pollutant	Potential to Emit (tons/yr)
PM	--
PM-10	--
SO_2	--
VOC	45.6
CO	--
NO_x	--

"—" are negligible emissions

HAPs	Potential to Emit (tons/yr)
Toluene	6.17
MEK	4.06
Methylene Chloride	3.92
Isopherone	1.40
Tetrahydrofuran	1.43
Other HAPs	0.86
Total	17.8

(a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of all criteria pollutants are less than 100 tons per year and the potential to emit of VOC is greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. An MSOP will be issued.

(b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1(16)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7. An MSOP will be issued.

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

County Attainment Status

The source is located in Kosciusko County.

Pollutant	Status
PM-10	Attainment
PM2.5	Attainment
SO_2	Attainment
NO_2	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

Note: On August 7, 2006, a temporary emergency rule took effect revoking the one-hour ozone standard in Indiana. The Indiana Air Pollution Control Board has approved a permanent rule revision to incorporate this change into 326 IAC 1-4-1. A permanent revision to 326 IAC 1-4-1 will take effect prior to the expiration of the emergency rule.

(a) Kosciusko County has been classified as unclassifiable or attainment for PM2.5. 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 PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.

(b) Volatile organic compounds (VOC) emissions and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions

are considered when evaluating the rule applicability relating to ozone. Kosciusko County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx 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) Kosciusko County has been classified as attainment or unclassifiable in Indiana for PM10, SO_2, NO_2, CO and Lead. 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) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	--
PM-10	--
SO_2	--
VOC	22.77
CO	--
NO_x	--
Single HAP	8.94
Combination HAPs	13.87

"—" are negligible emissions

(a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories.

(b) These emissions were based on the MSOP application submitted by the company and the calculations provided in Appendix A.

Proposed Modification

PTE from the proposed modification (based on 8760 hours of operation per year at rated capacity including enforceable emission control and production limit where applicable):

Pollutant	PM (ton/yr)	PM-10 (ton/yr)	SO_2 (ton/yr)	VOC (ton/yr)	CO (ton/yr)	NO_x (ton/yr)
Proposed Modification	--	--	--	22.83	--	--
PSD or Offset Threshold Level	250	250	250	250	250	250

This modification to an existing minor stationary source is not major because the emission increase is less than the PSD major source levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source, including the emissions from this permit 085-23250-00090, is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

(a) each criteria pollutant is less than 100 tons per year,

(b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and

(c) any combination of HAPs is less than 25 tons per year.

This status is based on all the air approvals issued to the source.

Federal Rule Applicability

(a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in this perimt.

(c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 20, and 40 CFR Part 61, 63), 40 CFR 63, Subpart SSSS, Surface Coating of Metal Coil, are not included in this permit. This source is not a major source of HAPs.

(d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 20, and 40 CFR Part 61, 63), 40 CFR 63, Subpart PPPP, Surface Coating of Plastic Parts and Products, are not included in this permit. This source is not a major source of HAPs.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

This source was originally constructed in 1996. This source is located in Kosciusko County which has been classified as attainment or unclassifiable for all criteria pollutants. Therefore, these emissions were evaluated pursuant to the requirements of PSD, and this source was considered a new minor source for all criteria pollutants, because emissions are less than the PSD source thresholds. The modifications to this facility, including the installation of the cuffing line in February 2006, and the installation of the MG Line, Tape Line, and increased production capacities for the existing lines, to be completed in October 2006, do not increase the PTE of any criteria pollutant above PSD major source thresholds. Therefore, this source remains a minor source under PSD.

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

The operation of the flexible ductwork adhesive assembly lines, cuffing station, MG Line, and Tape Line will emit less than 10 tons per year of a single HAP and less than 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)

This source is located in Kosciusko County, is not required to operate under the Part 70 Permit Program, and does not emit lead into the ambient atmosphere at levels greater than five (5) 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 Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in the permit:

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

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

326 IAC 6-4 (Fugitive Dust Emissions)

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

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

The source is not subject to the requirements of 326 IAC 6-5 because the potential fugitive particulate matter emissions are negligible.

State Rule Applicability – Flexible Ductwork Adhesive Assembly Units 200, 201, 205, and 206; Cuffing Station; MG Line; and Tape Line 326

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

The requirements of 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) are not included in this permit. The application of adhesives and materials to the wire coils and plastic and rubber skins are applied through dip or hand application and are exempt per 326 IAC 6-3-1(a)(5) and (8). The die oven and lab tester have potential emissions less than 0.551 pound per hour and are exempt per 326 IAC 6-3-1(a)(14).

326 IAC 8-2 (VOC; Surface Coating Emission Limitations)

The flexible ductwork adhesive assembly lines 200, 201, 205, and 206 are subject to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations). These facilities commenced construction after July 1, 1990 and have actual emissions of greater than fifteen (15) pounds per day.

Pursuant to 326 IAC 8-2-9, the Permittee shall not allow the discharge into the atmosphere VOC in excess of three (3.0) pounds of VOC per gallon of coating, excluding water, as delivered to the applicator.

Coatings from these facilities are applied using hand or dip methods; therefore, 326 IAC 8-2-9(f) does not apply.

The cuffing station, MG Line, and Tape Line are not subject to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations). Although these facilities commenced construction after July 1, 1990, the actual emissions of VOC from each facility is not greater than fifteen (15) tons per day.

326 IAC 8-1-6 (VOC; General Reduction Requirements)

The flexible ductwork adhesive assembly lines 200, 201, 205, and 206, cuffing station, MG Line, and Tape Line are not subject to 326 IAC 8-1-6 (VOC; General Reduction Requirements), because the potential to emit of each facility is less than twenty-five (25) tons per year.

Conclusion

The construction and operation of this stationary ductwork manufacturing operation shall be subject to the conditions of the New Source Construction and Minor Source Operating Permit 085-23250-00090.

Appendix A: Emissions Calculations
VOC From Adhesive Operations

Company Name: The Flexaust Company, Inc.
Address: 1510 Armstrong Road, Warsaw Indiana 46581
Permit Number: 085-23250-00090
Reviewer: ERG/TDP

ADHESIVE AND CUFFING STATION MATERIALS

Product	Product Code	Total Max Gallons/Hr For Adhesive & Cuffing Stations	% To Each Adhesive Station*	% To Each Cuffing Station*
Crosslinker	D1779	0.019333333	23.75%	5.00%
Toluene	Toluene	0.005833333	23.75%	5.00%
Methyl Ethyl Ketone	MEK	0.08565	23.75%	5.00%
Urethane Adhesive	D2160	1.106666667	23.75%	5.00%
Cement	D1085LT	1.008333333	23.75%	5.00%
Adhesive	D1085NC	0.1035	23.75%	5.00%
Prime Coat	S 2260	0.035833333	23.75%	5.00%
(3-A-737) Black 4-1 DR	105GL11103	0.183333333	23.75%	5.00%

MG LINE AND TAPE WRAPPING LINE MATERIALS

Product	Product Code	Max Lbs/hr	Gallons/Hr	Density
DOP Plasticizer	RT0757	0.168	0.020549202	8.1755
Isophorone	RT1457	0.32	0.041770549	7.6609
Industrial Blend	AG0116	0.435166667	0.058711891	7.4119

Note: * Product assembly is directed to one of four adhesive stations, prior to assembly at the cuffing station. Each adhesive station used 23.75% of each material listed. The remaining five percent of materials are used at the cuffing station.

VOC FROM ADHESIVE OPERATIONS

Material	Density (Lb/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Weight % Non-Volatiles (solids)	Maximum Gallons of Material Per 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
Adhesive Station 200												
Crosslinker_D1779	9.711	34.00%	0	34.00%	0	66.00%	0.004592	3.30	3.30	0.01516	0.36385	0.0664
Toluene_Toluene	7.2293	100.00%	0	100.00%	0	0.00%	0.001385	7.23	7.23	0.01002	0.24037	0.0439
Methyl Ethyl Ketone_MEK	6.723	100.00%	0	100.00%	0	0.00%	0.020342	6.72	6.72	0.13676	3.28220	0.5990
Urethane Adhesive_D2160	7.055	29.50%	0	29.50%	0	70.50%	0.262833	2.08	2.08	0.54702	13.12837	2.3959
Cement_D1085LT	6.98	79.39%	0	79.39%	0	20.61%	0.239479	5.54	5.54	1.32706	31.84932	5.8125
Adhesive_D1085NC	10.6	84.92%	0	84.92%	0	15.08%	0.024581	9.00	9.00	0.22127	5.31045	0.9692
Prime Coat_S 2260	6.516	66.00%	0	66.00%	0	34.00%	0.008510	4.30	4.30	0.03660	0.87839	0.1603
(3-A-737) Black 4-1 DR_105GL11103	9.55	0.06%	0	0.06%	0	99.94%	0.043542	0.01	0.01	0.00025	0.00599	0.0011
State Potential Emissions										**2.29**	**55.06**	**10.05**

Continued on next page. See methodology on page 4.

Appendix A: Emissions Calculations
VOC From Adhesive Operations

Company Name: The Flexaust Company, Inc.
Address: 1510 Armstrong Road, Warsaw Indiana 46581
Permit Number: 085-23250-00090
Reviewer: ERG/TDP

Material	Density (Lb/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Weight % Non-Volatiles (solids)	Maximum Gallons of Material Per 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
Adhesive Station 201												
Crosslinker_D1779	9.711	34.00%	0	34.00%	0	66.00%	0.004592	3.30	3.30	0.01516049	0.363851748	0.0664
Toluene_Toluene	7.2293	100.00%	0	100.00%	0	0.00%	0.001385	7.23	7.23	0.01001559	0.240374225	0.0439
Methyl Ethyl Ketone_MEK	6.723	100.00%	0	100.00%	0	0.00%	0.020342	6.72	6.72	0.13675843	3.282202215	0.5990
Urethane Adhesive_D2160	7.055	29.50%	0	29.50%	0	70.50%	0.262833	2.08	2.08	0.5470153	13.1283673	2.3959
Cement_D1085LT	6.98	79.39%	0	79.39%	0	20.61%	0.239479	5.54	5.54	1.32705512	31.84932295	5.8125
Adhesive_D1085NC	10.6	84.92%	0	84.92%	0	15.08%	0.024581	9.00	9.00	0.22126861	5.310446724	0.9692
Prime Coat_S 2260	6.516	66.00%	0	66.00%	0	34.00%	0.008510	4.30	4.30	0.036600	0.87838938	0.1603
(3-A-737) Black 4-1 DR_105GL11103	9.55	0.06%	0	0.06%	0	99.94%	0.043542	0.01	0.01	0.00024949	0.00598785	0.0011
						State Potential Emissions				**2.29**	**55.06**	**10.05**

Material	Density (Lb/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Weight % Non-Volatiles (solids)	Maximum Gallons of Material Per 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
Adhesive Station 205												
Crosslinker_D1779	9.711	34.00%	0	34.00%	0	66.00%	0.004592	3.30	3.30	0.01516049	0.363851748	0.0664
Toluene_Toluene	7.2293	100.00%	0	100.00%	0	0.00%	0.001385	7.23	7.23	0.01001559	0.240374225	0.0439
Methyl Ethyl Ketone_MEK	6.723	100.00%	0	100.00%	0	0.00%	0.020342	6.72	6.72	0.13675843	3.282202215	0.5990
Urethane Adhesive_D2160	7.055	29.50%	0	29.50%	0	70.50%	0.262833	2.08	2.08	0.5470153	13.1283673	2.3959
Cement_D1085LT	6.98	79.39%	0	79.39%	0	20.61%	0.239479	5.54	5.54	1.32705512	31.84932295	5.8125
Adhesive_D1085NC	10.6	84.92%	0	84.92%	0	15.08%	0.024581	9.00	9.00	0.22126861	5.310446724	0.9692
Prime Coat_S 2260	6.516	66.00%	0	66.00%	0	34.00%	0.008510	4.30	4.30	0.03659956	0.87838938	0.1603
(3-A-737) Black 4-1 DR_105GL11103	9.55	0.06%	0	0.06%	0	99.94%	0.043542	0.01	0.01	0.00024949	0.00598785	0.0011
						State Potential Emissions				**2.29**	**55.06**	**10.05**

Continued on next page. See methodology on page 4.

Appendix A: Emissions Calculations
VOC From Adhesive Operations

Company Name: The Flexaust Company, Inc.
Address: 1510 Armstrong Road, Warsaw Indiana 46581
Permit Number: 085-23250-00090
Reviewer: ERG/TDP

Material	Density (Lb/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Weight % Non-Volatiles (solids)	Maximum Gallons of Material Per 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
Adhesive Station 206												
Crosslinker_D1779	9.711	34.00%	0	34.00%	0	66.00%	0.004592	3.30	3.30	0.015160	0.363851748	0.0664
Toluene_Toluene	7.2293	100.00%	0	100.00%	0	0.00%	0.001385	7.23	7.23	0.01001559	0.240374225	0.0439
Methyl Ethyl Ketone_MEK	6.723	100.00%	0	100.00%	0	0.00%	0.020342	6.72	6.72	0.13675843	3.282202215	0.5990
Urethane Adhesive_D2160	7.055	29.50%	0	29.50%	0	70.50%	0.262833	2.08	2.08	0.5470153	13.1283673	2.3959
Cement_D1085LT	6.98	79.39%	0	79.39%	0	20.61%	0.239479	5.54	5.54	1.32705512	31.84932295	5.8125
Adhesive_D1085NC	10.6	84.92%	0	84.92%	0	15.08%	0.024581	9.00	9.00	0.22126861	5.310446724	0.9692
Prime Coat_S 2260	6.516	66.00%	0	66.00%	0	34.00%	0.008510	4.30	4.30	0.036600	0.87838938	0.1603
(3-A-737) Black 4-1 DR_105GL11103	9.55	0.06%	0	0.06%	0	99.94%	0.043542	0.01	0.01	0.00024949	0.00598785	0.0011
						State Potential Emissions				**2.29**	**55.06**	**10.05**

Material	Density (Lb/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Weight % Non-Volatiles (solids)	Maximum Gallons of Material Per 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
Cuffing Station												
Crosslinker_D1779	9.711	34.00%	0	34.00%	0	66.00%	0.000967	3.30	3.30	0.00319168	0.076600368	0.0140
Toluene_Toluene	7.2293	100.00%	0	100.00%	0	0.00%	0.000292	7.23	7.23	0.00210855	0.0506051	0.0092
Methyl Ethyl Ketone_MEK	6.723	100.00%	0	100.00%	0	0.00%	0.004283	6.72	6.72	0.02879125	0.69098994	0.1261
Urethane Adhesive_D2160	7.055	29.50%	0	29.50%	0	70.50%	0.055333	2.08	2.08	0.11516112	2.7638668	0.5044
Cement_D1085LT	6.98	79.39%	0	79.39%	0	20.61%	0.050417	5.54	5.54	0.279380	6.70512062	1.2237
Adhesive_D1085NC	10.6	84.92%	0	84.92%	0	15.08%	0.005175	9.00	9.00	0.04658287	1.117988784	0.2040
Prime Coat_S 2260	6.516	66.00%	0	66.00%	0	34.00%	0.001792	4.30	4.30	0.00770517	0.18492408	0.0337
(3-A-737) Black 4-1 DR_105GL11103	9.55	0.06%	0	0.06%	0	99.94%	0.009167	0.01	0.01	5.2525E-05	0.0012606	0.0002
						State Potential Emissions				**0.48**	**11.59**	**2.12**

Continued on next page. See methodology on page 4.

Appendix A: Emissions Calculations
VOC From Adhesive Operations

Company Name: The Flexaust Company, Inc.
Address: 1510 Armstrong Road, Warsaw Indiana 46581
Permit Number: 085-23250-00090
Reviewer: ERG/TDP

Material	Density (Lb/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Weight % Non-Volatiles (solids)	Maximum Gallons of Material Per 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
MG Line												
DOP Plasticizer_RT0757	8.1755	0.00%	0	0.00%	0	100.00%	0.020549	-	-	0	0	0.0000
Isophorone_RT1457	7.6609	100.00%	0	100.00%	0	0.00%	0.041771	7.66	7.66	0.32	7.68	1.4016
						State Potential Emissions				**0.32**	**7.68**	**1.40**

Material	Density (Lb/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Weight % Non-Volatiles (solids)	Maximum Gallons of Material Per 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
Tape Wrap Line												
Industrial Blend_AG0116	7.4119	100.00%	0	100.00%	0	0.00%	0.058712	7.41	7.41	0.43516667	10.444	1.9060
						State Potential Emissions				**0.44**	**10.44**	**1.91**

	Potential VOC [lbs/hr]	**Potential VOC [lbs/day]**	**Potential VOC [tons/yr]**
Total Potential Emissions	**10.41**	**249.95**	**45.62**

Note: The adehsive lines, cuffing station, MG Line, and Tape Line utilize dip coating and flowcoating application. Therefore, there are no PM emissions from these facilities.

METHODOLOGY
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

Appendix A: Emissions Calculations
Hazardous Air Pollutants (HAPs)
From Adhesive Operations (Entire Source)

Company Name: The Flexaust Company, Inc.
Address: 1510 Armstrong Road, Warsaw Indiana 46581
Permit Number: 085-23250-00090
Reviewer: ERG/TDP

Material	Density (Lbs per gallon)	% Toluene Diisocyanate	% Toluene	% MEK	% bis (2-ethylhexyl) phthalate	% Isophorone	% Tetrahydrofuran	%Methylene Chloride	% Xylene	% Chloroprene Monomer	Toluene Diisocyanate (lbs/gal)	Toluene (lbs/gal)	MEK (lbs/gal)	bis (2-ethylhexyl) phthalate (lbs/gal)	Isophorone (lbs/gal)	Tetrahydrofuran (lbs/gal)	Methylene Chloride (lbs/gal)	Xylene (lbs/gal)	Chloroprene Monomer (lbs/gal)
Crosslinker_D1779	9.711	1.00%									0.0971	-	-	-	-	-	-	-	-
Toluene_Toluene	7.2293		100%								-	7.2293	-	-	-	-	-	-	-
Methyl Ethyl Ketone_MEK	6.723			100.00%							-	-	6.7230	-	-	-	-	-	-
Urethane Adhesive_D2160	7.055			4%							-	-	0.2822	-	-	-	-	-	-
DOP Plasticizer_RT0757	8.1755				100%						-	-	-	8.1755	-	-	-	-	-
Isophorone_RT1457	7.6609					100%					-	-	-	-	7.6609	-	-	-	-
Industrial Blend_AG0116	7.4119						75%				-	-	-	-	-	5.5589	-	-	-
Cement_D1085LT	6.98		19.40%								-	1.3541	-	-	-	-	-	-	-
Adhesive_D1085NC	10.6			3.45%				81.47%			-	-	0.3657	-	-	-	8.6358	-	-
Prime Coat_S 2260	6.516								6%		-	-	-	-	-	-	-	0.3910	-
(3-A-737) Black 4-1 DR_105GL11103	9.55									0.01%	-	-	-	-	-	-	-	-	0.0010

Facility

Material	Maximum Throughput (gal/hr)	Toluene Diisocyanate (lbs/hr)	Toluene (lbs/hr)	MEK (lbs/hr)	bis (2-ethylhexyl) phthalate (lbs/hr)	Isophorone (lbs/hr)	Tetrahydrofuran (lbs/hr)	Methylene Chloride (lbs/hr)	Xylene (lbs/hr)	Chloroprene Monomer (lbs/hr)
Crosslinker_D1779	0.019333	0.0019								
Toluene_Toluene	0.005833		0.0422							
Methyl Ethyl Ketone_MEK	0.085650			0.5758						
Urethane Adhesive_D2160	1.106667			0.3123						
DOP Plasticizer_RT0757	0.020549				0.1680					
Isophorone_RT1457	0.041771					0.3200				
Industrial Blend_AG0116	0.058712						0.3264			
Cement_D1085LT	1.008333		1.3654							
Adhesive_D1085NC	0.103500			0.0378				0.8938		
Prime Coat_S 2260	0.035833								0.0140	
(3-A-737) Black 4-1 DR_105GL11103	0.183333									0.0002
Total HAP(lb/hr):		0.0019	1.4076	0.9260	0.1680	0.3200	0.3264	0.8938	0.0140	0.0002
Total HAP (tons/yr):		0.008	6.165	4.056	0.736	1.402	1.430	3.915	0.061	0.001

Appendix A: Emissions Calculations
Hazardous Air Pollutants (HAPs) by Department
From Adhesive Operations

Company Name: The Flexaust Company, Inc.
Address: 1510 Armstrong Road, Warsaw Indiana 46581
Permit Number: 085-23250-00090
Reviewer: ERG/TDP

Material	Density (Lbs per gallon)	% Toluene Diisocyanate	% Toluene	% MEK	% bis (2-ethylhexyl) phthalate	% Isophorone	% Tetrahydrofuran	%Methylene Chloride	% Xylene	% Chloroprene Monomer	Toluene Diisocyanate (lbs/gal)	Toluene (lbs/gal)	MEK (lbs/gal)	bis (2-ethylhexyl) phthalate (lbs/gal)	Isophorone (lbs/gal)	Tetrahydrofuran (lbs/gal)	Methylene Chloride (lbs/gal)	Xylene (lbs/gal)	Chloroprene Monomer (lbs/gal)
Crosslinker_D1779	9.711	1.00%									0.09711	-	-	-	-	-	-	-	-
Toluene_Toluene	7.2293		100%								-	7.22930	-	-	-	-	-	-	-
Methyl Ethyl Ketone_MEK	6.723			100.00%							-	-	6.72300	-	-	-	-	-	-
Urethane Adhesive_D2160	7.055			4%							-	-	0.28220	-	-	-	-	-	-
DOP Plasticizer_RT0757	8.1755				100%						-	-	-	8.17550	-	-	-	-	-
Isophorone_RT1457	7.6609					100%					-	-	-	-	7.66090	-	-	-	-
Industrial Blend_AG0116	7.4119						75%				-	-	-	-	-	5.55893	-	-	-
Cement_D1085LT	6.98		19.40%								-	1.35412	-	-	-	-	-	-	-
Adhesive_D1085NC	10.6			3.45%				81.47%			-	-	0.36570	-	-	-	8.63582	-	-
Prime Coat_S 2260	6.516								6.00%		-	-	-	-	-	-	-	0.39096	-
(3-A-737) Black 4-1 DR_105GL11103	9.55									0.01%	-	-	-	-	-	-	-	-	0.00096

Adhesive Station 200	Maximum Throughput (gals/hr)	Toluene Diisocyanate (lbs/hr)	Toluene (lbs/hr)	MEK (lbs/hr)	bis (2-ethylhexyl) phthalate (lbs/hr)	Isophorone (lbs/hr)	Tetrahydrofuran (lbs/hr)	Methylene Chloride (lbs/hr)	Xylene (lbs/hr)	Chloroprene Monomer (lbs/hr)
Crosslinker_D1779	0.004592	0.0004								
Toluene_Toluene	0.001385		0.0100							
Methyl Ethyl Ketone_MEK	0.020342			0.1368						
Urethane Adhesive_D2160	0.262833			0.0742						
Cement_D1085LT	0.239479		0.3243							
Adhesive_D1085NC	0.024581			0.0090				0.2123		
Prime Coat_S 2260	0.008510								0.0033	
(3-A-737) Black 4-1 DR_105G	0.043542									0.00004
Total HAP (lbs/hr):		0.0004	0.3343	0.2199	0.0000	0.0000	0.0000	0.2123	0.0033	0.00004
Total, this Department (lbs/hr):		0.7703		**3.3740 This Facility PTE HAPS (tons/yr)**						

Continued on next page.

Appendix A: Emissions Calculations
Hazardous Air Pollutants (HAPs) by Department
From Adhesive Operations

Company Name: The Flexaust Company, Inc.
Address: 1510 Armstrong Road, Warsaw Indiana 46581
Permit Number: 085-23250-00090
Reviewer: ERG/TDP

Adhesive Station 201	Maximum Throughput (gals/hr)	Toluene Diisocyanate (lbs/hr)	Toluene (lbs/hr)	MEK (lbs/hr)	bis (2-ethylhexyl) phthalate (lbs/hr)	Isophorone (lbs/hr)	Tetrahydrofuran (lbs/hr)	Methylene Chloride (lbs/hr)	Xylene (lbs/hr)	Chloroprene Monomer (lbs/hr)
Crosslinker_D1779	0.004592	0.0004								
Toluene_Toluene	0.001385		0.0100							
Methyl Ethyl Ketone_MEK	0.020342			0.1368						
Urethane Adhesive_D2160	0.262833			0.0742						
Cement_D1085LT	0.239479		0.3243							
Adhesive_D1085NC	0.024581			0.0090				0.2123		
Prime Coat_S 2260	0.008510								0.0033	
(3-A-737) Black 4-1 DR_105G	0.043542									0.00004
Total HAP (lbs/hr):		0.0004	0.3343	0.2199	0.0000	0.0000	0.0000	0.2123	0.0033	0.00004
Total, this Department (lbs/hr):		0.7703		**3.3740 This Facility PTE HAPS (tons/yr)**						

Adhesive Station 205	Maximum Throughput (gals/hr)	Toluene Diisocyanate (lbs/hr)	Toluene (lbs/hr)	MEK (lbs/hr)	bis (2-ethylhexyl) phthalate (lbs/hr)	Isophorone (lbs/hr)	Tetrahydrofuran (lbs/hr)	Methylene Chloride (lbs/hr)	Xylene (lbs/hr)	Chloroprene Monomer (lbs/hr)
Crosslinker_D1779	0.004592	0.0004								
Toluene_Toluene	0.001385		0.0100							
Methyl Ethyl Ketone_MEK	0.020342			0.1368						
Urethane Adhesive_D2160	0.262833			0.0742						
Cement_D1085LT	0.239479		0.3243							
Adhesive_D1085NC	0.024581			0.0090				0.2123		
Prime Coat_S 2260	0.008510								0.0033	
(3-A-737) Black 4-1 DR_105G	0.043542									0.00004
Total HAP (lbs/hr):		0.0004	0.3343	0.2199	0.0000	0.0000	0.0000	0.2123	0.0033	0.00004
Total, this Department (lbs/hr):		0.7703		**3.3740 This Facility PTE HAPS (tons/yr)**						

Adhesive Station 206	Maximum Throughput (gals/hr)	Toluene Diisocyanate (lbs/hr)	Toluene (lbs/hr)	MEK (lbs/hr)	bis (2-ethylhexyl) phthalate (lbs/hr)	Isophorone (lbs/hr)	Tetrahydrofuran (lbs/hr)	Methylene Chloride (lbs/hr)	Xylene (lbs/hr)	Chloroprene Monomer (lbs/hr)
Crosslinker_D1779	0.004592	0.0004								
Toluene_Toluene	0.001385		0.0100							
Methyl Ethyl Ketone_MEK	0.020342			0.1368						
Urethane Adhesive_D2160	0.262833			0.0742						
Cement_D1085LT	0.239479		0.3243							
Adhesive_D1085NC	0.024581			0.0090				0.2123		
Prime Coat_S 2260	0.008510								0.0033	
(3-A-737) Black 4-1 DR_105G	0.043542									0.00004
Total HAP (lbs/hr):		0.0004	0.3343	0.2199	0.0000	0.0000	0.0000	0.2123	0.0033	0.00004
Total, this Department (lbs/hr):		0.7703		**3.3740 This Facility PTE HAPS (tons/yr)**						

Continued on next page.

Appendix A: Emissions Calculations
Hazardous Air Pollutants (HAPs) by Department
From Adhesive Operations

Company Name: The Flexaust Company, Inc.
Address: 1510 Armstrong Road, Warsaw Indiana 46581
Permit Number: 085-23250-00090
Reviewer: ERG/TDP

Cuffing Station	Maximum Throughput (gals/hr)	Toluene Diisocyanate (lbs/hr)	Toluene (lbs/hr)	MEK (lbs/hr)	bis (2-ethylhexyl) phthalate (lbs/hr)	Isophorone (lbs/hr)	Tetrahydrofuran (lbs/hr)	Methylene Chloride (lbs/hr)	Xylene (lbs/hr)	Chloroprene Monomer (lbs/hr)
Crosslinker_D1779	0.000967	0.0001								
Toluene_Toluene	0.000292		0.0021							
Methyl Ethyl Ketone_MEK	0.004283			0.0288						
Urethane Adhesive_D2160	0.055333			0.0156						
Cement_D1085LT	0.050417		0.0683							
Adhesive_D1085NC	0.005175			0.0019				0.0447		
Prime Coat_S 2260	0.001792								0.0007	
(3-A-737) Black 4-1 DR_105G	0.009167									0.000009
Total HAP (lbs/hr):		0.0001	0.0704	0.0463	0.0000	0.0000	0.0000	0.0447	0.0007	0.0000
Total, this Department (lbs/hr):		0.1622		**0.7103 This Facility PTE HAPS (tons/yr)**						

MG Line	Maximum Throughput (gals/hr)	Toluene Diisocyanate (lbs/hr)	Toluene (lbs/hr)	MEK (lbs/hr)	bis (2-ethylhexyl) phthalate (lbs/hr)	Isophorone (lbs/hr)	Tetrahydrofuran (lbs/hr)
DOP Plasticizer_RT0757	0.020549				0.1680		
Isophorone_RT1457	0.041771					0.3200	
Total HAP (lbs/hr):		0.0000	0.0000	0.0000	0.1680	0.3200	0.0000
Total, this Department (lbs/hr):		0.4880		**2.1374 This Facility PTE HAPS (tons/yr)**			

Tape Wrap Line	Maximum Throughput (gals/hr)	Toluene Diisocyanate (lbs/hr)	Toluene (lbs/hr)	MEK (lbs/hr)	bis (2-ethylhexyl) phthalate (lbs/hr)	Isophorone (lbs/hr)	Tetrahydrofuran (lbs/hr)
Industrial Blend_AG0116	0.058712						0.3264
Total HAP (lbs/hr):		0.0000	0.0000	0.0000	0.0000	0.0000	0.3264
Total, this Department (lbs/hr):		0.3264		**1.4295 This Facility PTE HAPS (tons/yr)**			

	Toluene Diisocyanate	Toluene	MEK	bis (2-ethylhexyl) phthalate	Isophorone	Tetrahydrofuran	Methylene Chloride	Xylene	Chloroprene Monomer
Total Single HAP (lbs/hr	**0.0019**	**1.4076**	**0.9260**	**0.1680**	**0.3200**	**0.3264**	**0.8938**	**0.0140**	**0.0002**
PTE Single HAP (tons/yr):	***0.0082***	***6.1652***	***4.0558***	***0.7358***	***1.4016***	***1.4295***	***3.9149***	***0.0614***	***0.0008***
Total HAPs (tons/yr):	**17.7731**								

Appendix A: Emissions Calculations
Natural Gas Combustion Only
From One Die Oven and One Lab Tester (7,000 Btu each)

Company Name: The Flexaust Company, Inc.
Address: 1510 Armstrong Road, Warsaw Indiana 46581
Permit Number: 085-23250-00090
Reviewer: ERG/TDP
Date: September 28, 2006

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
0.014	0.12

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100	5.5	84.0
Potential to Emit in tons/yr	1.14E-04	4.57E-04	3.61E-05	6.01E-03	3.31E-04	5.05E-03

*PM10 emission factor is for filterable and condensible PM and PM10 combined. PM emission factor is for filterable PM.
**Emission factors for NOx: Uncontrolled = 100 lb/MMCF.

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 7/98)

Methodology
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Potential to Emit (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton