



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: March 21, 2006
RE: Bison Manufacturing, Inc. / 085-20809-00095
FROM: Paul Dubenetzky
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 1/10/05



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Indianapolis, Indiana 46204-2251
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**NEW SOURCE CONSTRUCTION PERMIT
and MINOR SOURCE OPERATING PERMIT
OFFICE OF AIR QUALITY**

**Bison Manufacturing, LLC
804 South Higbee (SR 15)
Milford, Indiana 46542**

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

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

Operation Permit No.: MSOP 085-20809-00095	
Original signed by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: March 21, 2006 Expiration Date: March 21, 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 livestock trailer superstructure manufacturing source.

Authorized Individual:	President
Source Address:	804 South Higbee (SR 15), Milford, IN 46542
Mailing Address:	804 South Higbee (SR 15), Milford, IN 46542
General Source Phone:	574-658-4161
SIC Code:	3715, 3799
County Location:	Kosciusko
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to construct and operate the following emissions units and pollution control devices:

- (a) One (1) paint booth operation, identified as PB1, constructed in 2003, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks Paint SV1 and Paint SV2, capacity: 0.750 metal horse trailers per hour.
- (b) One (1) trim/assembly operation, identified as Assembly 1, constructed in 2003, exhausting inside the building, capacity: 0.750 metal horse trailers per hour.
- (c) One (1) living quarters assembly operation, identified as LQ1, constructed in 2003, exhausting inside the building, capacity: 0.750 metal horse trailers per hour.
- (d) One (1) metal cutting operation using cutting coolant, identified as Metal 1, constructed in 2003, exhausting inside the building, capacity: 500 pounds of metal per trailer.
- (e) One (1) woodworking operation, identified as woodworking, constructed in 2003, exhausting inside the building, capacity: 5,063 pounds per hour.
- (f) One (1) gasoline storage tank, identified as Gas Tank 1, constructed in 2003, capacity: 250 gallons.
- (g) One (1) #2 distillate fuel oil storage tank, identified as Diesel Tank 1, constructed in 2003, capacity 250 gallons.
- (h) One (1) welding operation, identified as MIG Welding, constructed in 2003, exhausting inside the building, consisting of fifteen (15) metal inert gas (MIG) welding stations, capacity: 30.0 pounds of wire per hour total.
- (i) One (1) welding operation, identified as TIG Welding, constructed in 2005, exhausting inside the building, consisting of four (4) tungsten inert gas (TIG) welding stations,

capacity: 0.41 pounds of wire per hour total.

- (j) One (1) natural gas-fired paint booth air make-up unit, identified as PA1, constructed in 2003, exhausting to stack Paint SV1 and Paint SV2, rated at 3.888 million British thermal units per hour.
- (k) Twenty (20) natural gas-fired space heaters, constructed in 2003, rated at 1.5 million British thermal units per hour, total or 0.075 million British thermal units per hour, each.
- (l) One (1) natural gas-fired power washer, identified as Power Washer 1, constructed in 2003, rated at 0.44 million British thermal units per hour.
- (m) One (1) natural gas-fired office air make-up unit, identified as Air Make-Up, constructed in 2003, exhausting inside the building, rated at 0.15 million British thermal units per hour.
- (n) One (1) undercoating operation, identified as Undercoating 1, constructed in 2006, exhausting inside the building, capacity: 0.75 metal horse trailers per hour.

SECTION B GENERAL CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions

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

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

B.4 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.5 Permit Term and Renewal [326 IAC 2-6.1-7(a)] [326 IAC 2-1.1-9.5]

This permit 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 of this permit do not affect the expiration date.

The Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

B.6 Modification to Permit [326 IAC 2]

Notwithstanding the Section B condition entitled "Minor Source Operating Permit", all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.7 Minor Source Operating Permit [326 IAC 2-6.1]

This document shall also become a minor source operating permit pursuant to 326 IAC 2-6.1 when, prior to start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section.
 - (1) If the Affidavit of Construction verifies that the facilities covered in this Construction Permit were constructed as proposed in the application, then the facilities may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.
 - (2) 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 2-6.1-6 and an Operation Permit Validation Letter is issued.

- (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (c) Upon receipt of the Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section, the Permittee shall attach it to this document.
- (d) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-1.1-7(Fees).

B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) Annual notification shall be submitted 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) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and 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, Indiana 46204-2251
- (d) 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.9 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 emissions unit:
 - (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 PMP does not require the certification 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.10 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

- (a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.
- (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.

- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a non-road engine, as defined in 40 CFR 89.2.

B.11 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 this title or the conditions of this permit or any operating permit revisions;

- (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 processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (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.12 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)]:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAQ, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

B.13 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.14 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

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 one hundred (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 non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 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.

- (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

C.5 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 than 180 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.

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual date.
- (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 the 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.6 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

C.7 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.8 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.9 Response to Excursions or Exceedances

-
- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
 - (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

- (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
- (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.10 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 emissions unit 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 re-testing in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the re-testing deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to non-compliant stack tests.

The response action documents submitted pursuant to this condition do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.

Record Keeping and Reporting Requirements

C.11 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.12 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 when operation begins.

C.13 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-5] [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, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do not 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 UNITS OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) paint booth operation, identified as PB1, constructed in 2003, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks Paint SV1 and Paint SV2, capacity: 0.750 metal horse trailers per hour.
- (b) One (1) trim/assembly operation, identified as Assembly 1, constructed in 2003, exhausting inside the building, capacity: 0.750 metal horse trailers per hour.
- (c) One (1) living quarters assembly operation, identified as LQ1, constructed in 2003, exhausting inside the building, capacity: 0.750 metal horse trailers per hour.
- (n) One (1) undercoating operation, identified as Undercoating 1, constructed in 2006, exhausting inside the building, capacity: 0.75 metal horse trailers per hour.

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

Emission Limitations and Standards

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

Pursuant to 326 IAC 8-2-9, the owner or operator shall not allow the discharge into the atmosphere VOC in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, as delivered to the applicators at the one (1) paint booth, identified as PB1, the one (1) trim/assembly operation, identified as Assembly 1, and the one (1) living quarters assembly operation, identified as LQ1.

D.1.2 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(f), all solvents sprayed from the application equipment of one (1) paint booth, identified as PB1, the one (1) trim/assembly operation, identified as Assembly 1, and the one (1) living quarters assembly operation, identified as LQ1, during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that minimizes evaporation.

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

- (a) Particulate from the one (1) paint booth operation, identified as PB1, shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.
- (b) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (c) If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These

records must be maintained for five (5) years.

D.1.4 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the one (1) paint booth operation, identified as PB1, and its control device.

Compliance Determination Requirements

D.1.5 Volatile Organic Compounds (VOC) [326 IAC 8-1-2]

Compliance with the VOC content limit in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-2(a)(7), using a volume weighted average of coatings on a daily basis. This volume weighted average shall be determined by the following equation:

$$A = [\sum (c) \times U] / \sum U$$

Where: A is the volume weighted average in pounds VOC per gallon less water as applied;
C is the VOC content of the coating in pounds VOC per gallon less water as applied;
and U is the usage rate of the coating in gallons per day.

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

D.1.6 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1 and D.1.5, 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 content 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 daily 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 solvent.
 - (3) The volume weighted average VOC content of the coatings used for each day.
- (b) To document compliance with Condition D.1.3, the Permittee shall maintain records in accordance with Condition D.1.3.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (d) One (1) metal cutting operation using cutting coolant, identified as Metal 1, constructed in 2003, exhausting inside the building, capacity: 500 pounds of metal per trailer.
- (e) One (1) woodworking operation, identified as woodworking, constructed in 2003, exhausting inside the building, capacity: 5,063 pounds per hour.
- (f) One (1) gasoline storage tank, identified as Gas Tank 1, constructed in 2003, capacity: 250 gallons.
- (g) One (1) #2 distillate fuel oil storage tank, identified as Diesel Tank 1, constructed in 2003, capacity 250 gallons.
- (h) One (1) welding operation, identified as MIG Welding, constructed in 2003, exhausting inside the building, consisting of fifteen (15) metal inert gas (MIG) welding stations, capacity: 30.0 pounds of wire per hour total.
- (i) One (1) welding operation, identified as TIG Welding, constructed in 2005, exhausting inside the building, consisting of four (4) tungsten inert gas (TIG) welding stations, capacity: 0.41 pounds of wire per hour total.
- (j) One (1) natural gas-fired paint booth air make-up unit, identified as PA1, constructed in 2003, exhausting to stack Paint SV1 and Paint SV2, rated at 3.888 million British thermal units per hour.
- (k) Twenty (20) natural gas-fired space heaters, constructed in 2003, rated at 1.5 million British thermal units per hour, total or 0.075 million British thermal units per hour, each.
- (l) One (1) natural gas-fired power washer, identified as Power Washer 1, constructed in 2003, rated at 0.44 million British thermal units per hour.
- (m) One (1) natural gas-fired office air make-up unit, identified as Air Make-Up, constructed in 2003, exhausting inside the building, rated at 0.15 million British thermal units per hour.

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

Emission Limitations and Standards

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the one (1) woodworking operation shall not exceed 7.63 pounds per hour when operating at a process weight rate of 5,063 pounds per hour.

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

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

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

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

**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:	Bison Manufacturing, LLC
Address:	804 South Higbee (SR 15)
City:	Milford, Indiana 46542
Phone #:	574-658-4161
MSOP #:	085-20809-00095

I hereby certify that **Bison Manufacturing, LLC** is still in operation.
 no longer in operation.

I hereby certify that **Bison Manufacturing, LLC** is in compliance with the requirements of MSOP **085-20809-00095**.
 not in compliance with the requirements of MSOP **085-20809-00095**.

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 - 317 233-5967**

**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 PERM 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:	Bison Manufacturing, LLC
Source Location:	804 South Higbee (SR 15), Milford, Indiana 46542
County:	Kosciusko
SIC Code:	3715 and 3799
Operation Permit No.:	MSOP 085-20809-00095
Permit Reviewer:	Craig J. Friederich

The Office of Air Quality (OAQ) has reviewed an application from Bison Manufacturing, LLC relating to the construction and operation of a livestock trailer superstructure manufacturing source.

History

Bison Manufacturing, LLC was issued Registration 085-18420-00095 on March 11, 2004. Bison Manufacturing, LLC will be increasing the capacity throughout their permitted operations from 0.1667 units per hour to 0.75 units per hour. The PTE for building trailers and RV's is based on the amount of employees involved in the assembly process. Currently, with the amount of employees, the listed maximum output of 0.1667 units per hour is correct. The source will be adding employees. This will result in a debottlenecking in assembly and down the remainder of the line, which includes the paint booth. Additional units can then be assembled at a quicker pace and that allows the paint booth to paint more units. Therefore, the source is requesting to increase the capacity to 0.75 units per hour at all facilities. The source will also be installing a new undercoating operation, identified as Undercoat 1. The increase in capacity, as well as the addition of the new undercoating operation, will cause the potential to emit of the entire source to increase above Registration levels. Therefore, a Minor Source Operating Permit will be issued.

Permitted Emission Units and Pollution Control Equipment

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

- (a) One (1) paint booth operation, identified as PB1, constructed in 2003, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to stacks Paint SV1 and Paint SV2, capacity: 0.750 metal horse trailers per hour.
- (b) One (1) trim/assembly operation, identified as Assembly 1, constructed in 2003, exhausting inside the building, capacity: 0.750 metal horse trailers per hour.
- (c) One (1) living quarters assembly operation, identified as LQ1, constructed in 2003, exhausting inside the building, capacity: 0.750 metal horse trailers per hour.
- (d) One (1) metal cutting operation using cutting coolant, identified as Metal 1, constructed in 2003, exhausting inside the building, capacity: 500 pounds of metal per trailer.
- (e) One (1) woodworking operation, identified as woodworking, constructed in 2003, exhausting inside the building, capacity: 5,063 pounds per hour.
- (f) One (1) gasoline storage tank, identified as Gas Tank 1, constructed in 2003, capacity: 250 gallons.

- (g) One (1) #2 distillate fuel oil storage tank, identified as Diesel Tank 1, constructed in 2003, capacity 250 gallons.
- (h) One (1) welding operation, identified as MIG Welding, constructed in 2003, exhausting inside the building, consisting of fifteen (15) metal inert gas (MIG) welding stations, capacity: 30.0 pounds of wire per hour total.
- (i) One (1) welding operation, identified as TIG Welding, constructed in 2005, exhausting inside the building, consisting of four (4) tungsten inert gas (TIG) welding stations, capacity: 0.41 pounds of wire per hour total.
- (j) One (1) natural gas-fired paint booth air make-up unit, identified as PA1, constructed in 2003, exhausting to stack Paint SV1 and Paint SV2, rated at 3.888 million British thermal units per hour.
- (k) Twenty (20) natural gas-fired space heaters, constructed in 2003, rated at 1.5 million British thermal units per hour, total or 0.075 million British thermal units per hour, each.
- (l) One (1) natural gas-fired power washer, identified as Power Washer 1, constructed in 2003, rated at 0.44 million British thermal units per hour.
- (m) One (1) natural gas-fired office air make-up unit, identified as Air Make-Up, constructed in 2003, exhausting inside the building, rated at 0.15 million British thermal units per hour.

Unpermitted Emission Units and Pollution Control Equipment

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

New Emission Units and Pollution Control Equipment

- (n) One (1) undercoating operation, identified as Undercoating 1, constructed in 2006, exhausting inside the building, capacity: 0.75 metal horse trailers per hour.

Existing Approvals

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

- (a) Registration 085-17910-00095, issued November 12, 2003; and
- (b) Registration 085-18420-00095, issued March 11, 2004.

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 (°F)
Paint SV1	Paint Booth (PB1) Air	20.0	1.17	36,000	Ambient

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.

An application for the purposes of this review was received on February 17, 2005, with additional information received on March 31, July 1, and December 12, 2005.

Emission Calculations

See pages 1 through 8 of 8 of Appendix A of this document for detailed emission calculations.

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	38.2
PM ₁₀	38.4
SO ₂	Negligible
VOC	74.0
CO	2.20
NO _x	2.62

HAPs	Potential to Emit (tons/yr)
Xylene	0.204
Toluene	5.56
Perchloroethylene	0.26
MEK	2.34

HAPs	Potential to Emit (tons/yr)
Ethylbenzene	0.34
Methylene Chloride	1.12
MDI	0.26
Triethylene	0.29
All other HAPs	Negligible
Total	10.4

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all criteria pollutants is less than one hundred (100) 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 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less 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.

County Attainment Status

The source is located in Kosciusko County.

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

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Kosciusko County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.
- (b) Kosciusko County has been classified as unclassifiable or attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM_{2.5} emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a

surrogate for PM_{2.5} emissions. See the State Rule Applicability - Entire Source section of this document.

- (c) Kosciusko County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.
- (d) 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 8,760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	9.20
PM ₁₀	9.35
SO ₂	0.016
VOC	22.1
CO	2.20
NO _x	2.62
Single HAP	7.54
Combination HAPs	11.9

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of two-hundred fifty (250) tons per year or greater and it is not in one of the twenty-eight (28) listed source categories.
- (b) Emissions were based on the Technical Support Document for Registration 085-18420-00095, issued on March 11, 2004.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source, including the emissions from this permit 085-20809-00095, is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) criteria pollutant is less than one-hundred (100) tons per year,
- (b) a single hazardous air pollutant (HAP) is less than ten (10) tons per year, and
- (c) the combination of HAPs is less than twenty-five (25) tons per year.

This status is based on all the air approvals issued to the source. This status has been verified by the OAQ inspector assigned to the source.

Federal Rule Applicability

- (a) Pursuant to the 68 FR 59332, Oct. 15, 2003 version of 40 CFR 60.110b, which was incorporated by reference into 326 IAC 1-1-3 on October 14, 2005, NSPS Subpart Kb does not apply to storage vessels with a capacity less than 75 cubic meters (19,812.9 gallons), storage vessels with a capacity greater than or equal to 75 cubic meters (19,812.9 gallons) but less than 151 cubic meters (39,889.98 gallons) that store liquids with a maximum true vapor pressure that is less than 15.0 kPa (2.176 psia), and storage vessels with a capacity greater than 151 cubic meters (39,889.98 gallons) that store liquids with a maximum true vapor pressure that is less than 3.5 kPa (0.508 psia). The fuel oil and gasoline storage tanks, constructed in 2003, are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.110b, Subpart Kb) because the storage tanks each have a capacity less than seventy-five (75) cubic meters. Therefore, the requirements of 40 CFR 60, Subpart Kb are not included in this permit.
- (b) The requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63.560, Subpart T, are not included in this permit because the natural gas fired power washer does not use any halogenated solvents.
- (c) The requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63 Subpart M, are not included in this permit because the source is not a major source of Hazardous Air Pollutants (HAPs).
- (d) The requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63 Subpart P, are not included in this permit because the source is not a major source of Hazardous Air Pollutants (HAPs).

State Rule Applicability – Entire Source

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

This source was constructed in 2003, the potential to emit of all criteria pollutants is less than two-hundred fifty (250) tons per year, and it is not one of the 28 sources listed under 326 IAC 2-2. Therefore, the requirements of 326 IAC 2-2 do not apply.

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

The operation of this livestock trailer superstructure manufacturing source will emit less than ten (10) tons per year of a single HAP and twenty-five (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 not located in Lake or Porter County with the potential to emit greater than twenty-five (25) tons per year of NO_x, does not emit five (5) tons per year or more of lead and does not require a Part 70 Operating Permit. Therefore, the requirements of 326 IAC 2-6 do 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.

State Rule Applicability – Individual Facilities

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

- (a) Pursuant to 326 IAC 6-3-2 (d), particulate from the one (1) paint booth, identified as PB1, shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:

- (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

- (b) Pursuant to 326 IAC 6-3-1(b)(14), the one (1) trim/assembly operation is not subject to the requirements of 326 IAC 6-3 because the trim/assembly operation has the potential to emit Particulate of less than five hundred fifty-one thousandths (0.551) pound per hour.
- (c) Pursuant to 326 IAC 6-3-1(b)(14), the one (1) living quarters assembly operation is not subject to the requirements of 326 IAC 6-3 because the trim/assembly operation has the potential to emit Particulate of less than five hundred fifty-one thousandths (0.551) pound per hour.
- (d) Pursuant to 326 IAC 6-3-1(b)(14), the one (1) welding operation, identified as MIG Welding, is not subject to the requirements of 326 IAC 6-3 because the welding operation has potential emissions less than five hundred fifty-one thousandths (0.551) pound per hour.
- (e) Pursuant to 326 IAC 6-3-1(b)(14), the one (1) welding operation, identified as TIG Welding, is not subject to the requirements of 326 IAC 6-3 because the welding operation

has potential emissions less than five hundred fifty-one thousandths (0.551) pound per hour.

- (f) The one (1) undercoating operation, identified as Undercoating 1, is not subject to the requirements of 326 IAC 6-3 because the undercoating operation does not have any particulate emissions.
- (g) Pursuant to 326 IAC 6-3-2 (c), the particulate from the one (1) woodworking operation shall not exceed 7.63 pounds per hour when operating at a process weigh rate of 2.53 tons per hour. This limitation is based on 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:

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

The uncontrolled potential to emit is 3.75 pounds per hour. Therefore, the woodworking operation is in compliance with this rule.

- (h) There are no emissions from the metal cutting operation as that operation is a wet operation using metal coolant. Therefore, the requirements of this rule do not apply.

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

- (a) The one (1) paint booth operation, identified as PB1, the one (1) trim/assembly operation, identified as Assembly 1, and the one (1) living quarters assembly operation, identified as LQ1, are subject to the requirements of 326 IAC 8-2-9, because they were constructed after July 1, 1990, and have actual VOC emissions greater than fifteen (15) pounds per day.

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating), the owner or operator shall not allow the discharge into the atmosphere VOC in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, as delivered to the applicators at the one (1) paint booth, identified as PB1, the one (1) trim/assembly operation, identified as Assembly 1, and the one (1) living quarters assembly operation, identified as LQ1.

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.

Pursuant to 326 IAC 8-1-2(a), in order to document compliance with this rule, the Permittee shall maintain daily records of the volume weighted average VOC content of the coatings used at one (1) paint booth operation, identified as PB1, the one (1) trim/assembly operation, identified as Assembly 1, and the one (1) living quarters assembly operation, identified as LQ1. This volume weighted average shall be determined by the following equation:

$$A = [\sum (C \times U) / \sum U]$$

Where: A is the volume weighted average in pounds VOC per gallon less water as applied;

C is the VOC content of the coating in pounds VOC per gallon less water as applied; and

U is the usage rate of the coating in gallons per day.

- (b) The one (1) undercoating operation, identified as Undercoat 1, is not subject to the requirements of 326 IAC 8-2-9 because the actual VOC emissions from this operation are less than fifteen (15) pounds per day.

Compliance Requirements

Permits issued under 326 IAC 2-6.1 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-6.1. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

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

There are no specific Compliance Monitoring Requirements applicable to this source.

Air Quality Impacts from Minor Sources

Modeling Overview

Pursuant to 326 IAC 2-1.1-5, IDEM, OAQ, has conducted a modeling analysis of the Limited Potential to Emit (PTE) criteria pollutants from the increase in emissions from the one (1) paint booth, identified as PB1, to estimate whether the Limited PTE criteria pollutants will cause or contribute to a violation of any National Ambient Air Quality Standard (NAAQS).

Modeling Results – Criteria Pollutants

The modeling results indicate that the Limited PTE criteria pollutants the one (1) paint booth, identified as PB1 will not exceed the National Ambient Air Quality Standards (NAAQS).

Conclusion

The construction and operation of this livestock trailer superstructure manufacturing source shall be subject to the conditions of the New Source Construction and Minor Source Operating Permit 085-20809-00095.

**Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations**

**Company Name: Bison Manufacturing, LLC
Address City IN Zip: 804 South Higbee (SR15), Milford, IN 46542
MSOP: 085-20809
Plt ID: 085-00095
Reviewer: Craig J. Friederich/MES
Application Date: February 17, 2005**

undercoating

Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (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
Undercoating 1																
Emulsion 100	9.50	50.00%	48.00%	2.0%	48.30%	51.70%	2.0000	0.75	0.37	0.19	0.29	6.84	1.25	0.00	N/A	100%

PM Control Efficiency: 0.00%

State Potential Emissions	Add worst case coating to all solvents	Uncontrolled	0.29	6.84	1.25	0.00
		Controlled	0.29	6.84	1.25	0.00

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)
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)
Total = Worst Coating + Sum of all solvents used

**Appendix A: Emissions Calculations
Welding and Thermal Cutting**

Company Name: Bison Manufacturing, LLC
Address City IN Zip: 804 South Higbee (SR15), Milford, IN 46542
MSOP: 085-20809
Pit ID: 085-00095
Reviewer: Craig J. Friederich/MES
Application Date: February 17, 2005

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)		EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING												
Submerged Arc	0	0		0.036	0.011			0.000	0.000	0.000	0	0.000
Metal Inert Gas (MIG)(carbon steel)	15	2		0.0055	0.0005			0.165	0.015	0.000	0	0.015
Stick (E7018 electrode)	0	0		0.0211	0.0009			0.000	0.000	0.000	0	0.000
Tungsten Inert Gas (TIG)(carbon steel)	4	0.1025		0.0055	0.0005			0.002	0.000	0.000	0	0.000
Oxyacetylene(carbon steel)	0	0		0.0055	0.0005			0.000	0.000	0.000	0	0.000
FLAME CUTTING	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Oxyacetylene	0	0	0	0.1622	0.0005	0.0001	0.0003	0.000	0.000	0.000	0.000	0.000
Oxymethane	0	0	0	0.0815	0.0002		0.0002	0.000	0.000	0.000	0.000	0.000
Plasma**	0	0	0	0.0039				0.000	0.000	0.000	0.000	0.000
EMISSION TOTALS												
Potential Emissions lbs/hr								0.17	0.02	0.00	0.00	0.02
Potential Emissions lbs/day								4.01	0.36	0.00	0.00	0.36
Potential Emissions tons/year								0.73	0.07	0.00	0.00	0.07

METHODOLOGY

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

**Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the emission factor for plasma cutting is for 8 mm thick rather than 1 inch, and the maximum metal thickness is not used in calculating the emissions.

Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm thick

Plasma cutting emissions, lb/hr: (# of stations)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 8 mm thick)

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 1" thick)

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs

Welding and other flame cutting emission factors are from an internal training session document, "Welding and Flame Cutting". See Rebecca Mason if you need a copy.

Refer to AP-42, Chapter 12.19 for additional emission factors for welding.

Appendix A: Emissions Calculations

**Particulate
from Woodworking Operations**

Company Name: Bison Manufacturing, LLC
Address City IN Zip: 804 South Higbee (SR 15), Milford, Indiana 46542
MSOP: 085-20809
Pit ID: 085-00095
Reviewer: Craig J. Friederich
Date: February 17, 2005

Amount of Sawdust Collected lbs/unit	Throughput units/hr	Particulate Potential lbs/hr	Particulate Potential tons/yr
5.00	0.75	3.750	16.43

Methodology

PM10 is equal to PM

Particulate Potential (lbs/hr) = Amount of sawdust collected (lbs/unit) x Throughput (units/hr)

Particulate Potential (tons/yr) = Particulate Potential (lbs/hr) x 8,760 hrs/yr x 1 ton/2,000lbs

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

Company Name: Bison Manufacturing, LLC
Address City IN Zip: 804 South Higbee (SR 15), Milford, Indiana 46542
MSOP: 085-20809
Pit ID: 085-00095
Reviewer: Craig J. Friederich
Date: February 17, 2005

Heat Input Capacity
MMBtu/hr

5.978

Potential Throughput
MMCF/yr

52.4

One (1) paint booth air make-up unit rated at 3.888 MMBtu/hr.
 Twenty (20) space heaters rated at 1.5 MMBtu/hr, total.
 One (1) power washer rated at 0.44 MMBtu/hr.
 One (1) office air make-up unit rated at 0.15 MMBtu/hr.

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100	5.50	84.0
				**see below		
Potential Emission in tons/yr	0.050	0.199	0.016	2.62	0.144	2.20

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

See page 5 for HAPs emissions calculations.

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

Company Name: Bison Manufacturing, LLC
Address City IN Zip: 804 South Higbee (SR 15), Milford, Indiana 46542
MSOP: 085-20809
Pit ID: 085-00095
Reviewer: Craig J. Friederich
Date: February 17, 2005

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 0.002	Dichlorobenzene 0.001	Formaldehyde 0.075	Hexane 1.80	Toluene 0.003
Potential Emission in tons/yr	0.0001	0.00003	0.002	0.047	0.0001

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 0.001	Cadmium 0.001	Chromium 0.001	Manganese 0.0004	Nickel 0.002	Total
Potential Emission in tons/yr	0.00001	0.00003	0.00004	0.00001	0.0001	0.049

Methodology is the same as page 4.

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

**Appendix A: Emissions Calculations
VOC and Particulate
From Surface Coating Operations**

Company Name: Bison Manufacturing, LLC
Registration: 804 South Higbee (SR 15), Milford, Indiana 46542
Permit Number: 085-20809
Pit ID: 085-00095
Reviewer: Craig J. Friederich
Date: February 17, 2005

Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (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	Material Coated
Surface Coating (PB1)																	
Part A, 3.5 Poly Paint	8.26	42.0%	0.00%	42.0%	0.00%	54.2%	2.25	0.7500	3.47	3.47	5.86	140.6	25.65	8.85	6.41	75.0%	Metal
Part B, 3.5 Paint Activator	8.24	42.7%	0.00%	42.7%	0.00%	48.6%	0.750	0.7500	3.52	3.52	1.979	47.5	8.67	2.908	7.24	75.0%	Metal
													34.32				
Part A, Primer	12.53	27.7%	0.00%	27.7%	0.00%	53.4%	2.52	0.7500	3.47	3.47	6.55	157.3	28.71	18.73	6.50	75.0%	Metal
Part B, Primer Activator	8.24	42.7%	0.00%	42.7%	0.00%	48.6%	0.420	0.7500	3.52	3.52	1.107	26.57	4.85	1.627	7.24	75.0%	Metal
													33.56				
Xylol	7.25	100%	0.00%	100%	0.00%	0.00%	0.063	0.7500	7.25	7.25	0.340	8.156	1.489	0.00	N/A	75.0%	Metal

*Only one (1) coating is applied at a time.

PM Control Efficiency: 80.0%

State Potential Emissions

Add worst case coating to all solvents

Uncontrolled 7.84 188.1 35.81 20.36
Controlled 7.84 188.1 35.81 4.072

Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (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	Material Coated
Assembly																	
Permathane Sealant	13.42	3.00%	0.00%	3.00%	0.00%	97.0%	0.390	0.750	0.403	0.403	0.118	2.826	0.516	0.00	0.415	100%	Metal
SM 5732	8.67	5.00%	0.00%	5.00%	0.00%	95.0%	0.508	0.750	0.434	0.434	0.165	3.962	0.723	0.00	0.456	100%	Metal
Geocel RP 400	8.26	30.3%	0.00%	30.3%	0.00%	69.7%	0.625	0.750	2.50	2.50	1.173	28.16	5.139	0.00	3.59	100%	Metal
SM 5504	8.26	42.40%	0.00%	42.400%	0.00%	57.60%	0.083	0.750	3.50	3.502	0.219	5.251	0.958	0.000	6.08	100.0%	Metal
3M 94 Tape Primer	6.84	91.6%	0.00%	91.6%	0.00%	8.45%	0.026	0.750	6.26	6.26	0.124	2.96	0.541	0.00	74.11	100%	Metal
3M Undercoat 08881	7.88	52.1%	0.00%	52.1%	0.00%	47.90%	0.125	0.750	4.11	4.11	0.385	9.24	1.69	0.39	8.57	75%	Metal
PreCleaner P1208 RW	6.37	100.0%	0.00%	100.0%	0.00%	0.00%	0.250	0.750	6.37	6.37	1.194	28.67	5.23	0.00	#DIV/0!	100%	Metal
Isopropyl Alcohol RW	6.55	100.0%	0.00%	100.0%	0.00%	0.00%	0.125	0.750	6.55	6.55	0.614	14.74	2.69	0.00	#DIV/0!	100%	Metal
Seymour MRO 620-1415	7.08	50.1%	0.00%	50.1%	0.00%	49.90%	0.063	0.750	3.55	3.55	0.166	3.99	0.73	0.18	7.11	75%	Metal
3M Adhesive	5.76	82.7%	12.35%	70.3%	12.35%	13.00%	0.125	0.750	4.62	4.05	0.380	9.11	1.66	0.10	31.15	75%	Metal
SM 6104	13.03	3.0%	0.00%	3.0%	0.00%	97.00%	1.750	0.750	0.39	0.39	0.513	12.31	2.25	0.00	0.40	100%	Metal
											5.051	121.2	22.12	0.671			

Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (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	Material Coated
Living Quarters																	
PreCleaner P1208 RW	6.37	100.0%	0.00%	100.0%	0.00%	0.0%	0.391	0.7500	6.37	6.37	1.868	44.83	8.18	0.00	#DIV/0!	100%	Metal/Vinyl
Isopropyl Alcohol RW	6.55	100%	0.00%	100%	0.00%	0.00%	0.078	0.7500	6.55	6.55	0.383	9.20	1.678	0.00	N/A	100.0%	Metal/Vinyl
Crazy Clean	8.39	100%	0.00%	100%	0.00%	0.00%	0.059	0.7500	8.39	8.39	0.369	8.85	1.615	0.00	N/A	75.0%	Metal/Vinyl
Handi foam Sealant	10.00	0%	0.00%	0%	0.00%	0.00%	0.061	0.7500	0.00	0.00	0.000	0.00	0.000	0.00	N/A	100.0%	Metal/Vinyl
Trempro 645 Sealant	8.37	0%	0.00%	0%	0.00%	100.00%	0.010	0.7500	0.00	0.00	0.000	0.00	0.000	0.00	N/A	100.0%	Wood/Metal
Sprayway Glass Cleaner	7.99	100%	88.70%	11%	88.70%	0.00%	0.063	0.7500	7.99	0.90	0.042	1.02	0.185	0.00	N/A	75.0%	Wood/Metal/Vinyl
Benders 604 Foam Adh	10.42	88.0%	49.6%	38.4%	49.6%	12.0%	0.076	0.7500	7.94	4.00	0.229	5.49	1.002	0.00	33.3	100.0%	Wood/Vinyl
SM 5732	8.67	5.000%	0.00%	5.000%	0.00%	95.0%	0.031	0.7500	0.43	0.43	0.010	0.24	0.045	0.00	0.456	100%	Wood/Metal/Vinyl
Oatey Cleaner	6.75	55.6%	0.0%	55.6%	0.0%	44.40%	0.038	0.7500	3.75	3.75	0.106	2.55	0.466	0.00	N/A	100%	Plastic
Oatey ABS Cement	7.42	67.6%	0.00%	67.6%	0.00%	32.4%	0.091	0.7500	5.02	5.02	0.342	8.22	1.499	0.00	15.5	100%	Plastic

PM Control Efficiency: 0.00%

State Potential Emissions

Add worst case coating to all solvents

Uncontrolled 8.40 201.61 36.79 0.67

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 hrs/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)

Total = Worst Coating + Sum of all solvents used

	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential (ton/yr)
Uncontrolled	16.24	390	72.6	21.03
Controlled	16.24	390	72.6	4.744

**Appendix A: Emission Calculations
HAP Emission Calculations**

Company Name: Bison Manufacturing, LLC
Address City IN Zip: 804 South Higbee (SR 15), Milford, Indiana 46542
Registration: 085-20809
Pit ID: 085-00095
Permit Reviewer: Craig J. Friederich
Date: February 17, 2005

Material	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % Perchloroethylene	Weight % MEK	Weight % Ethyl Benzene	Weight % Methylene Chloride	Weight % MDI	Weight % Trichloroethylene	Xylene Emissions (ton/yr)	Toluene Emissions (ton/yr)	Perchloroethylene Emissions (ton/yr)	MEK Emissions (ton/yr)	Ethyl Benzene Emissions (ton/yr)	Methylene Chloride Emissions (ton/yr)	MDI Emissions (ton/yr)	Trichloroethylene Emissions (ton/yr)	
Surface Coating (PB1)																				
Xylol	7.25	0.063	0.7500	99.0%	0.00%	0.00%	0.00%	20.0%	0.00%	0.00%	0.00%	1.485	0.00	0.00	0.00	0.300	0.00	0.00	0.00	
*Only one (1) coating is applied at a time.																				
Assembly																				
Permathane Sealant	13.42	0.390	0.750	0.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.516	0.00	0.00	0.00	0.00	0.00	0.00	
3M 94 Tape Primer	6.84	0.026	0.750	35.00%	0.00%	0.00%	0.00%	7.00%	0.00%	0.00%	0.00%	0.204	0.00	0.00	0.00	0.04	0.00	0.00	0.00	
SM 5504	8.26	0.083	0.750	0.00%	42.0%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	
3M Undercoat 08881	7.88	0.125	0.7500	0.00%	30.0%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	
PreCleaner P1208 RW	6.37	0.250	0.7500	0.00%	14.5%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	
SM 6104	13.03	1.750	0.7500	0.00%	3.0%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	
Living Quarters																				
PreCleaner P1208 RW	6.37	0.039	0.7500	0.00%	14.5%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	
Handi foam Sealant	10	0.061	0.7500	0.00%	0.0%	0.00%	0.00%	0.00%	0.00%	13.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.261	0.00	
Benders 604 Foam Adh	10.4	0.076	0.7500	0.00%	0.00%	10.00%	0.00%	0.00%	45.0%	0.0%	10.0%	0.00	0.00	0.26	0.00	0.00	1.17	0.000	0.260	
Oatey Cleaner	6.75	0.038	0.7500	0.00%	0.00%	0.00%	80.0%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.674	0.00	0.00	0.00	0.00	
Oatey ABS Cement	7.42	0.091	0.7500	0.00%	0.00%	0.00%	75.0%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	1.664	0.00	0.00	0.00	0.00	
												0.204	5.56	0.26	2.34	0.34	1.17	0.26	0.26	
																		Overall Total		10.4

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: Emissions Calculations
Summary from Entire Source**

Company Name: Bison Manufacturing, LLC
Address City IN Zip: 804 South Higbee (SR 15), Milford, Indiana 46542
MSOP: 085-20809
Plt ID: 085-00095
Reviewer: Craig J. Friederich
Date: February 17, 2005

Uncontrolled Emissions (tons per year)

Facility	PM	PM10	SO2	NOx	VOC	CO
Combustion	0.050	0.199	0.016	2.62	0.144	2.20
Surface Coating	21.0	21.0	0.00	0.00	73.9	0.00
Welding	0.73	0.73	0.00	0.00	0.00	0.00
Woodworking	16.43	16.43	0.00	0.00	0.00	0.00
Total	38.21	38.36	0.016	2.62	74.0	2.20

Controlled Emissions (tons per year)

Facility	PM	PM10	SO2	NOx	VOC	CO
Combustion	0.050	0.199	0.016	2.62	0.144	2.20
Surface Coating	4.74	4.74	0.00	0.00	73.9	0.00
Welding	0.73	0.73	0.00	0.00	0.00	0.00
Woodworking	16.43	16.43	0.00	0.00	0.00	0.00
Total	21.95	22.10	0.016	2.62	74.0	2.20

Note: Single worst case HAP (Toluene) is 5.56
Total HAPs 10.4

Surface Coating Includes the Paint Booth, Assembly, Living Quarters, and Undercoating.