



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: February 7, 2007
RE: Dutchmen Manufacturing, Inc. / 039-23811-00380
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 13-17-3-4 and 326 IAC 2, this approval is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 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 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-MOD.dot 03/23/06



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MINOR SOURCE OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

**Dutchmen Manufacturing, Inc.
305 Steury Avenue
Goshen, Indiana 46526**

(herein known as the Permittee) is hereby authorized to 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 039-19951-00380	
Original signed by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: May 13, 2005 Expiration Date: May 13, 2010
First Minor Permit Revision No.: MPR 039-23811-00380	Sections/Condition Revised: A.2, D.1.1, D.1.5 (previously D.1.4), D.1.6 (previously D.1.7), D.1.7 (previously D.1.9), and D.1.9 (previously D.1.16) Conditions Added: D.1.4, D.1.8, D.1.10 Conditions Removed: C.11, D.1.5, D.1.6, D.1.8, D.1.10 - D.1.15
Issued by: <i>Original document signed by</i> Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: February 7, 2007 Expiration Date: May 13, 2010

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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 travel trailer manufacturing source that produces trailer cabinet parts, slide-out, pre-finished, and finished travel trailers.

Authorized Individual: President
Source Address: 305 Steury Avenue, Goshen, Indiana 46526
Mailing Address: 2164 Caragana Court, Goshen, Indiana 46526
General Source Phone: (574)- 534 - 1224
SIC Code: 3792
County Location: Elkhart
Source Location Status: Basic Nonattainment area for 8 Hour Ozone
Attainment area for all other 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 operate the following emissions units and pollution control devices:

Stick and Tin Assembly Building

Woodworking operations consist of: three (3) band saws, one (1) chop saw, one (1) drill press, three (3) grinder benches, eighteen (18) mitre saws, one (1) double mitre saw, three (3) radial arm saws, two (2) routers, three (3) table saws and one (1) belt sander.

Chassis Frame with Floor Preparation

- (a) One (1) woodworking and surface coating operation, constructed in 1989/1990, equipped with a cyclone, identified as P1, exhausting through vents V1 and V2, using spray cans and hand wiping to apply coatings to metal and PVC, with a maximum throughput of 1,125 pounds of preassembled frames per hour, 184 pounds of plywood per hour and 210 pounds of panelboard per hour and a maximum production capacity of 1.75 travel trailers per hour.

Cabinets and Mill

- (b) One (1) woodworking and surface coating operation, constructed in 1989/1990, equipped with two (2) cyclones, identified as P1 and P2, exhausting through vents V1 and V2, using spray cans and hand wiping to apply coatings to wood and plastic, with a maximum throughput of 225 pounds of wood and lauan per hour, 913 pounds of panelboard per hour, 63 pounds of plywood per hour, and 315 pounds of stiles per hour, and a maximum production capacity of 1.75 travel trailers per hour.

Slide-Out Assembly and Installation

- (c) One (1) assembly operation, constructed in 1989/1990, with a maximum throughput of 724 pounds of precut roof, wall and roof panels per hour, and a maximum production capacity of 1.75 travel trailers per hour.

Prefinished Travel Trailers (Unit Assembly) Operation

- (d) One (1) woodworking and surface coating operation, constructed in 1989/1990, equipped with two (2) cyclones, identified as P1 and P2, exhausting through vents V1 and V2, using spray cans, brushes, and hand wiping to apply coatings to wood, plastic, and metal, with a maximum throughput of 934 pounds of wood walls and roof panels per hour and a maximum production capacity of 1.75 travel trailers per hour.
- (e) One (1) inside above ground storage tank, capacity: 250 gallons of hydraulic oil.
- (f) Two (2) outside above ground storage tanks, installed in 1991 and 1995, capacity: 250 gallons of diesel fuel, each.
- (g) Two (2) outside above ground storage tanks, installed in 1991, capacity: 300 gallons of unleaded gasoline, each.
- (h) Six (6) radiant heaters, identified as H1 through H5, H13, rated at 0.150 million British thermal units per hour each, exhausting through stacks H1 - H5 and H13, respectively.
- (i) Three (3) space heaters, identified as H6 through H8, rated at 0.100 million British thermal units per hour each, exhausting through stacks H6 - H8, respectively.
- (j) Four (4) space heaters, identified as H9 through H12, rated at 0.225 million British thermal units per hour each, exhausting through stacks H9 - H11, respectively.
- (k) Seven (7) space heaters, identified as H14 through H20, rated at 0.100 million British thermal units per hour each, exhausting through stacks H14 through H20, respectively.
- (l) Seven (7) space heaters, identified as H21 through H27, rated at 0.225 million British thermal units per hour each, exhausting through stacks H21 - H27, respectively.
- (m) Two (2) radiant heaters, identified as H28 and H29, rated at 0.150 million British thermal units per hour each, exhausting through stacks H28 and H29, respectively.

Stick and Tin Final Finish Building

Finished Travel Trailers

- (n) One (1) woodworking and surface coating operation, constructed in 1990, consisting of one (1) chop saw and one (1) radial arm saw, equipped with a cyclone, identified as P3, and one (1) stand-by baghouse, identified as BH1, exhausting through vents V3 through V5, using spray cans and hand wiping to

apply coatings, with a maximum throughput of 35 pounds of stiles per hour, and a maximum production capacity of 1.75 travel trailers (wood, plastic, glass, metal and some carpet) per hour.

Welding

- (o) One (1) MIG welding station, capacity: 0.516 pounds of wire per hour.
- (p) Two (2) stick welding stations, capacity: 1.0 and 7.0 (0.612 pounds) electrodes per hour, each.

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 operate 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 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.5 Modification to Permit [326 IAC 2]

All requirements and conditions of this operating 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.6 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, IN 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.7 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) 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 by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) 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.8 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.9 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.10 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.11 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.12 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

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 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 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

C.5 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using ambient air quality modeling pursuant to 326 IAC 1-7-4.

C.6 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 2-7-1(34).

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

- (g) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

Testing Requirements

C.7 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 (and local agency) not later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, (and local agency), 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.8 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.9 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.10 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.11 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.12 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.13 General Record Keeping Requirements [326 IAC 2-6.1-2]

- (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.14 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, 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:

Stick and Tin Assembly Building

Woodworking operations consist of: three (3) band saws, one (1) chop saw, one (1) drill press, three (3) grinder benches, eighteen (18) mitre saws, one (1) double mitre saw, three (3) radial arm saws, two (2) routers, three (3) table saws and one (1) belt sander.

Chassis Frame with Floor Preparation

- (a) One (1) woodworking and surface coating operation, constructed in 1989/1990, equipped with a cyclone, identified as P1, exhausting through vents V1 and V2, using spray cans and hand wiping to apply coatings to metal and PVC, with a maximum throughput of 1,125 pounds of preassembled frames per hour, 184 pounds of plywood per hour and 210 pounds of panelboard per hour and a maximum production capacity of 1.75 travel trailers per hour.

Cabinets and Mill

- (b) One (1) woodworking and surface coating operation, constructed in 1989/1990, equipped with two (2) cyclones, identified as P1 and P2, exhausting through vents V1 and V2, using spray cans and hand wiping to apply coatings to wood and plastic, with a maximum throughput of 225 pounds of wood and lauan per hour, 913 pounds of panelboard per hour, 63 pounds of plywood per hour, and 315 pounds of stiles per hour, and a maximum production capacity of 1.75 travel trailers per hour.

Slide-Out Assembly and Installation

- (c) One (1) assembly operation, constructed in 1989/1990, with a maximum throughput of 724 pounds of precut roof, wall and roof panels per hour, and a maximum production capacity of 1.75 travel trailers per hour.

Prefinished Travel Trailers (Unit Assembly) Operation

- (d) One (1) woodworking and surface coating operation, constructed in 1989/1990, equipped with two (2) cyclones, identified as P1 and P2, exhausting through vents V1 and V2, using spray cans, brushes, and hand wiping to apply coatings to wood, plastic, and metal, with a maximum throughput of 934 pounds of wood walls and roof panels per hour and a maximum production capacity of 1.75 travel trailers per hour.

Stick and Tin Final Finish Building

Finished Travel Trailers

- (n) One (1) woodworking and surface coating operation, constructed in 1990, consisting of one (1) chop saw and one (1) radial arm saw, equipped with a cyclone, identified as P3, and one (1) stand-by baghouse, identified as BH1, exhausting through vents V3 through V5, using spray cans and hand wiping to apply coatings, with a maximum throughput of 35 pounds of stiles per hour, and a maximum production capacity of 1.75 travel trailers (wood, plastic, glass, metal and some carpet) 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 of VOC in excess of 3.5 pounds of VOC per gallon of coating, excluding water, as delivered to the applicator, when coating metal.

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 surface coating operations 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 Volatile Organic Compounds (VOC) [326 IAC 8-2-12]

Pursuant to 326 IAC 8-2-12 (Wood Furniture and Cabinet Coating), the surface coating applied to wood furniture and cabinets shall utilize one of the following application methods:

- Airless Spray Application
- Air Assisted Airless Spray Application
- Electrostatic Spray Application
- Electrostatic Bell or Disc Application
- Heated Airless Spray Application
- Roller Coating
- Brush or Wipe Application
- Dip-and-Drain Application

High Volume Low Pressure (HVLP) Spray Application is an accepted alternative method of application for Air Assisted Airless Spray Application. HVLP spray is the technology used to apply coating to substrate by means of coating application equipment which operates between one-tenth (0.1) and ten (10) pounds per square inch gauge (psig) air pressure measured dynamically at the center of the air cap and at the air horns of the spray system.

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

The VOC usage when cleaning or applying coatings, sealants, solvents, or adhesives to plastic, glass, rubber, and wood parts, other than wood furniture and cabinets, at the stick and tin travel trailer production line, including the chassis and floor preparation, cabinets and mill, slide-out assembly and installation, prefinished travel trailers (unit assembly) operation, and finished travel trailers, shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

D.1.5 Particulate Matter (PM) [326 IAC 6-3-2]

The particulate matter from the woodworking operations at the Stick and Tin Assembly Building and Final Finish Building shall be limited to E, as follows:

Process	Process Weight Rate (P) (tons/hr)	Allowable Emission Rate (E) (lbs/hr)
Chassis Frame and Floor Preparation	0.7595	3.41
Cabinets and Mill	0.758	3.41
Prefinished Travel Trailers (Unit Assembly)	0.467	2.46
Finished Travel Trailers	< 100 lbs/hr	0.551

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:

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

Compliance Determination Requirements

D.1.6 Particulate Control

In order to comply with Condition D.1.5:

- (a) The cyclones, identified as P1 and P2 shall be in operation and control emissions from the woodworking operations at the Stick and Tin Assembly Building at all times the woodworking operations at the Stick and Tin Assembly Building are in operation.
- (b) The cyclone, identified as P3, and the back-up baghouse, identified as BH1 (as needed), shall be in operation and control emissions from the woodworking operations at the Final Finish Building at all times the woodworking operations at the Final Finish Building are in operation.

D.1.7 Volatile Organic Compounds (VOC) [326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a)]

Compliance with the VOC content and usage limitations contained in Conditions D.1.1 and D.1.4 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer.

D.1.8 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.1.9 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1 and D.1.4 the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Conditions D.1.1 and D.1.4.
 - (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 on metal for each day;
 - (4) The cleanup solvent usage for each month;
 - (5) The total VOC usage when cleaning or applying coatings, sealants, solvents, or adhesives to plastic, glass, rubber, and wood parts, other than wood furniture and cabinets, at the stick and tin travel trailer production line, including the chassis and floor preparation, cabinets and mill, slide-out assembly and installation, prefinished travel trailers (unit assembly) operation, and finished travel trailers for each month; and
 - (6) The weight of VOCs emitted for each compliance period.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.10 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.4 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**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:	Dutchmen Manufacturing, Inc.
Address:	305 Steury Avenue
City:	Goshen, Indiana 46526
Phone #:	(574)534-1224
MSOP #:	039-19951-00380

I hereby certify that Dutchmen Manufacturing, Inc. is still in operation.
 no longer in operation.

I hereby certify that Dutchmen Manufacturing, Inc. is in compliance with the requirements of MSOP **039-19951-00380**.
 not in compliance with the requirements of MSOP **039-19951-00380**.

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 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: _____

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
COMPLIANCE DATA SECTION**

MSOP Quarterly Report

Source Name: Dutchmen Manufacturing, Inc.
Source Address: 305 Steury Avenue, Goshen, Indiana 46526
Mailing Address: 2164 Caragana Court, Goshen, Indiana 46526
MSOP No.: 039-19951-00380
Facility: Stick and tin travel trailer production line, including the chassis and floor preparation, cabinets and mill, slide-out assembly and installation, prefinished travel trailers (unit assembly) operation, and finished travel trailers
Parameter: VOC usage when cleaning or applying coatings, sealants, solvents, or adhesives to plastic, glass, rubber, and wood parts, other than wood furniture and cabinets
Limit: Less than 25.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

YEAR: _____

Month	VOC Usage (tons)	VOC Usage (tons)	VOC Usage (tons)
	This Month	Previous 11 Months	12 Month Total

- ★ No deviation occurred in this month.
- ★ Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Minor Permit Revision to a Minor Source Operating Permit

Source Background and Description

Source Name:	Dutchmen Manufacturing, Inc.
Source Location:	305 Steury Avenue, Goshen, Indiana 46526
County:	Elkhart
SIC Code:	3792
Operation Permit No.:	MSOP 039-19951-00380
Operation Permit Issuance Date:	May 13, 2005
Minor Permit Revision No.:	MPR 039-23811-00380
Permit Reviewer:	CarrieAnn Paukowits

The Office of Air Quality (OAQ) has reviewed a revision application from Dutchmen Manufacturing, Inc. relating to the construction and operation of the following emission units and pollution control devices:

The Permittee is proposing to increase the capacity of some facilities at the source and remove some emission units from the source. The following changes are proposed (new language is in **bold** and removed language is struck out):

Stick and Tin Assembly Building

Woodworking operations consist of: three (3) band saws, one (1) chop saw, one (1) drill press, three (3) grinder benches, eighteen (18) mitre saws, one (1) double mitre saw, three (3) radial arm saws, two (2) routers, three (3) table saws and one (1) belt sander.

Chassis Frame with Floor Preparation

- (a) One (1) woodworking and surface coating operation, **constructed in 1989/1990**, equipped with a cyclone, identified as P1, exhausting through vents V1 and V2, **using spray cans and hand wiping to apply coatings to metal and PVC**, with a maximum throughput of 1,125 pounds of preassembled frames per hour, ~~426~~ **184** pounds of plywood per hour and 444 **210** pounds of panelboard per hour and a maximum production capacity of ~~4-2~~ **1.75** travel trailers per hour.

Cabinets and Mill

- (b) One (1) woodworking and surface coating operation, **constructed in 1989/1990**, equipped with two (2) cyclones, identified as P1 and P2, exhausting through vents V1 and V2, **using spray cans and hand wiping to apply coatings to wood and lauan**, with a maximum throughput of ~~154.8~~ **225** pounds of wood **and lauan** per hour, ~~626.4~~ **913** pounds of panelboard per hour, ~~43.2~~ **63** pounds of plywood per hour, and ~~246~~ **315** pounds of stiles per hour, and a maximum production capacity of ~~4-2~~ **1.75** travel trailers per hour.

Slide-Out Assembly and Installation

- (c) One (1) ~~woodworking and surface coating~~ **assembly** operation, **constructed in 1989/1990**, ~~equipped with two (2) cyclones, identified as P1 and P2, exhausting~~

~~through vents V1 and V2, with a maximum throughput of 28.8 pounds of Luan per hour, 356.4 pounds of wood per hour, 82.8 pounds of panelboard per hour and 28.8 724 pounds of precut roof, wall and roof panels plywood per hour, and a maximum production capacity of 4.2 1.75 travel trailers per hour.~~

Prefinished Travel Trailers (Unit Assembly) Operation

- (d) One (1) woodworking and surface coating operation, **constructed in 1989/1990**, equipped with two (2) cyclones, identified as P1 and P2, exhausting through vents V1 and V2, **using spray cans, brushes, and hand wiping to apply coatings to wood, plastic, and metal**, with a maximum throughput of ~~432~~ **934** pounds of wood **walls and roof panels** per hour, ~~82.8 pounds of panelboard per hour and 126 pounds of plywood per hour~~ and a maximum production capacity of ~~4.2~~ **1.75** travel trailers per hour.

~~Stick and Tin Assembly Building (Relocated from Maple City Plant)~~

- ~~(i) One (1) inside tote, installed in 1993, capacity: 330 gallons of adhesive.~~
- ~~(j)~~(e) One (1) inside above ground storage tank, capacity: 250 gallons of hydraulic oil.
- ~~(k)~~(f) ~~One (1)~~ **Two (2)** outside above ground storage tanks, installed in 1991 **and 1995**, capacity: 250 gallons of diesel fuel, **each**.
- ~~(l)~~(g) Two (2) outside above ground storage tanks, installed in 1991, capacity: 300 gallons of unleaded gasoline, each.

~~Stick and Tin Assembly Building~~

- ~~(o)~~(h) Six (6) radiant heaters, identified as H1 through H5, H13, rated at 0.150 million British thermal units per hour each, exhausting through stacks H1 - H5 and H13 (~~formally known as H-14~~), respectively.
- ~~(p)~~(i) Three (3) space heaters, identified as H6 through H8, rated at 0.100 million British thermal units per hour each, exhausting through stacks H6 - H8, respectively.
- ~~(q)~~(j) Four (4) space heaters, identified as H9 through H12, rated at 0.225 million British thermal units per hour each, exhausting through stacks H9 - H11, respectively.
- ~~(r)~~(k) Seven (7) space heaters, identified as H14 through H20 (~~formally known as H1-H7~~), rated at 0.100 million British thermal units per hour each, exhausting through stacks H14 through H20, respectively.
- ~~(s)~~(l) Seven (7) space heaters, identified as H21 through H27 (~~formally known as H8-H14~~), rated at 0.225 million British thermal units per hour each, exhausting through stacks H21 - H27, respectively.
- ~~(t)~~(m) Two (2) radiant heaters, identified as H28 and H29 (~~formerly known as H15 and H16~~), rated at 0.150 million British thermal units per hour each, exhausting through stacks H28 and H29, respectively.

Stick and Tin Final Finish Building

Finished Travel Trailers

~~(e)~~(n) One (1) woodworking and surface coating operation, **constructed in 1990**, consisting of one (1) chop saw and one (1) radial arm saw, equipped with a cyclone, identified as P3, and one (1) stand-by baghouse, identified as ~~P4~~ **BH1**, exhausting through vents V3 through V5, **using spray cans and hand wiping to apply coatings**, with a maximum throughput of ~~48.0~~ **35** pounds of ~~wood stiles~~ per hour and ~~9.0~~ pounds of panelboard per hour, and a maximum production capacity of ~~4.2~~ **1.75** travel trailers (**wood, plastic, glass, metal and some carpet**) per hour.

Welding

~~(f)~~(o) One (1) MIG welding station, capacity: ~~0.354~~ **0.516** pounds of wire per hour.

~~(g)~~(p) Two (2) stick welding stations, capacity: 1.0 and 7.0 (**0.612 pounds**) electrodes per hour, **each**.

~~(h)~~ One (1) oxyacetylene flame cutting station, capacity: 0.167 inches per minute at a thickness of 0.375 inches.

~~Middlebury Lite Final Finish (Relocated from Dutchmen Manufacturing, CR 38, Goshen, IN)~~

~~(m)~~ One (1) painting area where travel trailers' cabinets, walls, prefinished and assembled campers are coated using aerosol cans, with a maximum capacity of 1.125 units per hour.

~~(n)~~ Woodworking operation, with a maximum throughput of 828.966 pounds per hour of wood. This operation consists of the following equipment:

~~(1)~~ Nine (9) Chop Saws equipped with one (1) portable baghouse identified as M-P6

~~(2)~~ Two (2) Table Saws equipped with one (1) cyclone, identified as M-P5

~~(3)~~ One (1) Belt Sander

~~(4)~~ One (1) Pin Router equipped with one (1) cyclone, identified as M-P5

~~(5)~~ One (1) Band Saw equipped with one (1) cyclone, identified as M-P5

~~(6)~~ One (1) Drill Press

~~(7)~~ Two (2) Radial Arms Saws equipped with one (1) cyclone, identified as M-P5

~~(8)~~ One (1) Grinder

~~(9)~~ One (1) Plasma Cutter

~~These units also use portable back-up baghouse as pollution control equipment, identified as M-P7.~~

History

On October 23, 2006, Dutchmen Manufacturing, Inc. submitted an application to the OAQ requesting to increase the capacity of their existing plant. Dutchmen Manufacturing, Inc. was issued a Minor Source Operating Permit (MSOP) Renewal, MSOP 039-19951-00380, on May 13, 2005.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the MSOP Minor Permit Revision 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 October 23, 2006. Additional information was received on December 27, 2006.

Emission Calculations

See pages 1 through 9 of Appendix A of this document for detailed emissions calculations.

Potential To Emit of Revision

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

This table reflects the PTE before controls for this revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	0.210
PM ₁₀	0.210
SO ₂	0.00
VOC	20.9
CO	0.00
NO _x	0.00

HAPs	Potential To Emit (tons/year)
Toluene	0.762
Hexane	0.496
Xylene	0.699
MDI	0.289
Vinyl Acetate	0.296
1,2 Propylenimine	< 0.001
Cumene	0.068
Glycol Ethers	0.017
TOTAL	2.63

The values in these tables represent the unrestricted potential emissions due to the increase in capacity at the coating operations. The increase in capacity from the woodworking operations does not result in an increase in the calculated potential emissions because the emissions calculations are based on the control device parameters provided by the manufacturer, which will not change as a result of this modification.

Justification for Revision

The MSOP is being revised through a MSOP Minor Permit Revision. This revision is being performed pursuant to 326 IAC 2-6.1-6(g)(4), modifications that would have a potential to emit within less than twenty-five (25) tons per year and equal to or greater than ten (10) tons per year of volatile organic compounds (VOC).

County Attainment Status

The source is located in Elkhart County.

Pollutant	Status
PM _{2.5}	attainment
PM ₁₀	attainment
SO ₂	attainment
NO ₂	attainment
8-Hour Ozone	basic nonattainment
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 the ozone standards. Elkhart County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements of 326 IAC 2-3, Emission Offset. See the State Rule Applicability - Entire Source section of this document.

- (b) Elkhart 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 for the source section.
- (c) Elkhart County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana.
- (e) 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 or Emission Offset Definition (emissions after controls, based upon 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	35.8
PM ₁₀	35.9
SO ₂	0.012
VOC	46.5
CO	1.72
NO _x	2.05

- (a) This existing source is not a major stationary source under 326 IAC 2-2, PSD, because no attainment regulated pollutant is emitted at a rate of two-hundred fifty (250) tons per year or more, and it is not one of the twenty-eight (28) listed source categories.
- (b) This existing source is not a major stationary source under 326 IAC 2-3, Emission Offset, because no nonattainment regulated pollutant is emitted at a rate of one hundred (100) tons per year or more.
- (c) These emissions are based upon the potential to emit of the units at the capacity before the proposed modification, but not including removed emission units (see page 9 of Appendix A of this document).

Potential to Emit After Issuance

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

Process/facility	Potential to Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Assembly Building							
Coating	0.097	0.097	0.000	47.3	0.000	0.000	1.49 (xylene)/ 4.89
Woodworking	48.7	48.7	0.000	0.000	0.000	0.000	0.000
Storage Tanks	0.000	0.000	0.000	0.816	0.000	0.000	0.816
Combustion	0.039	0.156	0.012	0.113	1.720	2.048	0.037 (hexane)/ 0.039
Final Finish Building							
Coating	0.571	0.571	0.000	19.1	0.000	0.000	1.30 (toluene)/ 3.47
Woodworking	25.9	25.9	0.000	0.000	0.000	0.000	0.000
Welding	0.168	0.168	0.000	0.000	0.000	0.000	0.000
Overall Total	75.5	75.7	0.012	67.3	1.72	2.05	2.42 (toluene)/ 9.22
Part 70 Threshold Level	N/A	100	100	100	100	100	10/25

- (a) This revision to the existing MSOP will **not** change the status of the stationary source because the potential emissions from the entire source will still be less than the Part 70 major source thresholds.
- (b) The values in this table are the unrestricted potential to emit of the source (see page 9 of Appendix A of this document).

Federal Rule Applicability

- (a) The diesel and gasoline storage tanks have a capacity less than 75 cubic meters, each. Therefore, the requirements of 40 CFR 60, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, are still not included in the permit for this source.
- (b) This source does not coat metal furniture. Therefore, the requirements of 40 CFR 60, Subpart EE, Standards of Performance for Surface Coating of Metal Furniture, and 40 CFR 63, Subpart RRRR, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture, are still not included in the permit for this source.
- (c) The travel trailers assembled at this source are not automobiles or light duty trucks. Therefore, the requirements of 40 CFR 60, Subpart MM, Standards of Performance for Automobile and Light Duty Truck Surface Coating Operations, and 40 CFR 63, Subpart

III, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks, are still not included in the permit for this source.

- (d) This source is still not a major source of HAPs. Therefore, requirements of 40 CFR 63, Subpart JJ, National Emission Standards for Wood Furniture Manufacturing Operations, are not included in the permit for this source.
- (e) This source is not a major source of HAPs. Therefore, the requirements of 40 CFR 63, Subpart MMMM, the National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products, are not included in the permit for this source.
- (f) This source is still not a major source of HAPs. Therefore, the requirements of 40 CFR 63, Subpart PPPP, National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products, are not included in the permit for this source.

State Rule Applicability - Individual Facilities

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

The unrestricted potential emissions of PM, PM₁₀, PM_{2.5}, SO₂, NO₂ and CO are still less than two hundred and fifty (250) tons per year. Therefore, the requirements of 326 IAC 2-2, PSD, are still not applicable.

326 IAC 2-3 (Emission Offset)

The unrestricted potential emissions of VOC and NO_x are still less than one hundred (100) tons per year. Therefore, the requirements of 326 IAC 2-3, Emission Offset, are still not applicable.

326 IAC 2-4.1-1 (New source toxics control)

The operation of this travel trailer manufacturing source will still 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, 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 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

- (a) The particulate from the woodworking operations shall be limited to E, as follows:

Process	Control Device	Process Weight Rate (P) (tons/hr)	Allowable Emission Rate (E) (lbs/hr)	Unrestricted PTE (lbs/hr)	Controlled PTE (lbs/hr)	Controls Required?
Stick and Tin Assembly Building						
Chassis Frame and Floor Preparation	Cyclone P1	0.7595	3.41	3.77	0.038	Yes
Cabinets and Mill	Cyclones P1 and P2	0.758	3.41	11.1	0.112	Yes
Prefinished Travel Trailers (Unit Assembly)	Cyclones P1 and P2	0.467	2.46	11.1	0.112	Yes
Stick and Tin Final Finish Building						
Finished Travel Trailers	Cyclone P3 and Baghouse BH1	< 100 lbs/hr	0.551	5.92	0.059	Yes

These limitations are based upon the following:

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:

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

- (b) The potential to emit particulate is less than 0.551 pound per hour from the coating operations and the slide-out assembly and installation operation. Therefore, pursuant to 326 IAC 6-3-1(b)(14), the coating operations and the slide-out assembly and installation operation are exempt from the requirements of 326 IAC 6-3-2.
- (c) Less than 625 pounds of wire and rod is consumed per day at the welding operations. Therefore, the welding is exempt from the requirements of 326 IAC 6-3, pursuant to 326 IAC 6-3-1(b)(9).

326 IAC 8-1-6 (New facilities; General reduction requirements)

Most of the materials coated at this source are not regulated by 326 IAC 8-2. Due to the increase in the potential to emit VOC, the potential VOC emissions are now greater than twenty-five (25) tons per year when applying coatings, sealants, solvents, or adhesives to plastic, glass, rubber, and wood parts, other than wood furniture and cabinets. The VOC usage when cleaning or applying coatings, sealants, solvents, or adhesives to plastic, glass, rubber, and wood parts, other than wood furniture and cabinets, at the stick and tin travel trailer production line, including the chassis and floor preparation, cabinets and mill, slide-out assembly and installation, prefinished travel trailers (unit assembly) operation, and finished travel trailers, shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 8-1-6 are still not applicable.

326 IAC 8-2-2 (Automobile and Light Duty Truck Coating Operations)

The travel trailers assembled at this source are not passenger cars, passenger car derivatives, or motor vehicles designed for transportation, or derivatives of motor vehicles designed for transportation. Therefore, the requirements of 326 IAC 8-2-2 are not applicable.

326 IAC 8-2-6 (Metal Furniture Coating Operations)

This source does not coat any metal furniture. Therefore, the requirements of 326 IAC 8-2-6 are not applicable.

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

This source, constructed after July 1, 1990, coats miscellaneous metal products under SIC 37, and actual VOC emissions are greater than fifteen (15) pounds per day. Pursuant to MSOP 039-19951-00380, issued on May 13, 2005, the stick and tin travel trailer production line, including the chassis and floor preparation, cabinets and mill, slide-out assembly and installation, prefinished travel trailers (unit assembly) operation, and finished travel trailers, is subject to the requirements of 326 IAC 8-2-9. Pursuant to 326 IAC 8-2-9, the Permittee shall not allow the discharge to the atmosphere of any volatile organic compounds in excess of forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating excluding water, delivered to a coating applicator in a coating application system that is air dried or forced warm air dried. Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized. Compliance shall be calculated based on a daily volume weighted average using 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.

326 IAC 8-2-10 (Flat Wood Panels; Manufacturing Operations)

This source does not coat any flat wood panels that are considered printed panels, natural finish hardwood plywood panels, or hardboard paneling with Class II finishes. Therefore, the requirements of 326 IAC 8-2-10 are not applicable.

326 IAC 8-2-11 (Fabric and Vinyl Coating)

This source does not perform fabric or vinyl coating. Therefore, the requirements of 326 IAC 8-2-11 are not applicable.

326 IAC 8-2-12 (Wood Furniture and Cabinet Coating)

The wood furniture and cabinets used in the trailers are pre-coated. However, some sealants and glues are applied to wood furniture and cabinets. Pursuant to MSOP 039-19951-00380, issued on May 13, 2005, the surface coating applied to wood furniture and cabinets shall utilize one of the following application methods:

- Airless Spray Application
- Air Assisted Airless Spray Application
- Electrostatic Spray Application
- Electrostatic Bell or Disc Application
- Heated Airless Spray Application
- Roller Coating
- Brush or Wipe Application
- Dip-and-Drain Application

High Volume Low Pressure (HVLP) Spray Application is an accepted alternative method of application for Air Assisted Airless Spray Application. HVLP spray is the technology used to apply coating to substrate by means of coating application equipment which operates between one-tenth (0.1) and ten (10) pounds per square inch gauge (psig) air pressure measured dynamically at the center of the air cap and at the air horns of the spray system.

326 IAC 8-4-6 (Gasoline Dispensing Facilities)

Pursuant to 326 IAC 8-4-6 (8), "Gasoline dispensing facility" means any facility where gasoline is dispensed into motor vehicle fuel tanks or portable containers from a storage tank with a capacity of two thousand one hundred seventy-six (2,176) liters (five hundred seventy-five (575) gallons) or more. Pursuant to 326 IAC 8-4-6(a)(8), diesel fuel and kerosene are not considered to be motor vehicle fuels. The insignificant fuel dispensing operations at this source dispense gasoline and petroleum motor vehicle fuels from tanks with capacities less than seventy-six (2,176) liters (five hundred seventy-five (575) gallons). Therefore, the requirements of 326 IAC 8-4-6 are not applicable.

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.

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

The coating operations are not subject to 326 IAC 6-3-2. Although the control devices are required in order for the woodworking operations to comply with 326 IAC 6-3-2, the emissions after controls are low enough such that there are no compliance monitoring conditions specifically required by this permit.

Proposed Changes

The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language appears in bold):

Change 1:

Due to the proposed revisions, Sections A.2 and D.1 are revised. Also, the 326 IAC 6-3 revisions that became effective on June 12, 2002 were approved into the State Implementation Plan on September 23, 2005. These rules replace the previous version of 326 IAC 6-3 (Process Operations) that had been part of the SIP; therefore, the requirements of the previous version of

326 IAC 6-3-2 are no longer applicable to this source. Condition D.1.5, which contained these requirements, has been removed. Under the new rule, the coating operations and the slide-out assembly and installation operation are exempt from the requirements of 326 IAC 6-3-2, because the potential to emit particulate is less than 0.551 pound per hour from those operations. Therefore, part (a) of Condition D.1.4 (now D.1.5) has also been removed. The revisions to Sections A.2 and D.1 are as follows:

A.2 Emissions Units and Pollution Control Equipment Summary

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

Stick and Tin Assembly Building

Woodworking operations consist of: three (3) band saws, one (1) chop saw, one (1) drill press, three (3) grinder benches, eighteen (18) mitre saws, one (1) double mitre saw, three (3) radial arm saws, two (2) routers, three (3) table saws and one (1) belt sander.

Chassis Frame with Floor Preparation

- (a) One (1) woodworking and surface coating operation, **constructed in 1989/1990**, equipped with a cyclone, identified as P1, exhausting through vents V1 and V2, **using spray cans and hand wiping to apply coatings to metal and PVC**, with a maximum throughput of 1,125 pounds of preassembled frames per hour, ~~426~~ **184** pounds of plywood per hour and ~~144~~ **210** pounds of panelboard per hour and a maximum production capacity of ~~4-2~~ **1.75** travel trailers per hour.

Cabinets and Mill

- (b) One (1) woodworking and surface coating operation, **constructed in 1989/1990**, equipped with two (2) cyclones, identified as P1 and P2, exhausting through vents V1 and V2, **using spray cans and hand wiping to apply coatings to wood and lauan**, with a maximum throughput of ~~454.8~~ **225** pounds of wood and ~~626.4~~ **913** pounds of panelboard per hour, ~~43.2~~ **63** pounds of plywood per hour, and ~~246~~ **315** pounds of stiles per hour, and a maximum production capacity of ~~4-2~~ **1.75** travel trailers per hour.

Slide-Out Assembly and Installation

- (c) One (1) ~~woodworking and surface coating~~ **assembly** operation, **constructed in 1989/1990**, equipped with ~~two (2) cyclones, identified as P1 and P2, exhausting through vents V1 and V2,~~ with a maximum throughput of ~~28.8~~ pounds of Luan per hour, ~~356.4~~ pounds of wood per hour, ~~82.8~~ pounds of panelboard per hour and ~~28.8~~ **724** pounds of **precut roof, wall and roof panels** plywood per hour, and a maximum production capacity of ~~4-2~~ **1.75** travel trailers per hour.

Prefinished Travel Trailers (Unit Assembly) Operation

- (d) One (1) woodworking and surface coating operation, **constructed in 1989/1990**, equipped with two (2) cyclones, identified as P1 and P2, exhausting through vents V1 and V2, **using spray cans, brushes, and hand wiping to apply coatings to wood, plastic, and metal**, with a maximum throughput of ~~432~~ **934** pounds of wood **walls and roof panels** per hour, ~~82.8~~ pounds of panelboard per hour and ~~126~~ pounds of plywood per hour and a maximum production capacity of ~~4-2~~ **1.75** travel trailers per hour.

~~Stick and Tin Assembly Building (Relocated from Maple City Plant)~~

- ~~(i)~~ One (1) inside tote, installed in 1993, capacity: 330 gallons of adhesive.
- ~~(j)~~**(e)** One (1) inside above ground storage tank, capacity: 250 gallons of hydraulic oil.
- ~~(k)~~**(f)** ~~One (1)~~ **Two (2)** outside above ground storage tanks, installed in 1991 **and 1995**, capacity: 250 gallons of diesel fuel, **each**.
- ~~(l)~~**(g)** Two (2) outside above ground storage tanks, installed in 1991, capacity: 300 gallons of unleaded gasoline, each.

~~Stick and Tin Assembly Building~~

- ~~(e)~~**(h)** Six (6) radiant heaters, identified as H1 through H5, H13, rated at 0.150 million British thermal units per hour each, exhausting through stacks H1 - H5 and H13 (~~formally known as H-14~~), respectively.
- ~~(f)~~**(i)** Three (3) space heaters, identified as H6 through H8, rated at 0.100 million British thermal units per hour each, exhausting through stacks H6 - H8, respectively.
- ~~(g)~~**(j)** Four (4) space heaters, identified as H9 through H12, rated at 0.225 million British thermal units per hour each, exhausting through stacks H9 - H11, respectively.
- ~~(h)~~**(k)** Seven (7) space heaters, identified as H14 through H20 (~~formally known as H1-H7~~), rated at 0.100 million British thermal units per hour each, exhausting through stacks H14 through H20, respectively.
- ~~(i)~~**(l)** Seven (7) space heaters, identified as H21 through H27 (~~formally known as H8-H14~~), rated at 0.225 million British thermal units per hour each, exhausting through stacks H21 - H27, respectively.
- ~~(j)~~**(m)** Two (2) radiant heaters, identified as H28 and H29 (~~formerly known as H15 and H16~~), rated at 0.150 million British thermal units per hour each, exhausting through stacks H28 and H29, respectively.

Stick and Tin Final Finish Building

Finished Travel Trailers

- ~~(e)~~**(n)** One (1) woodworking and surface coating operation, **constructed in 1990**, consisting of one (1) chop saw and one (1) radial arm saw, equipped with a cyclone, identified as P3, and one (1) stand-by baghouse, identified as ~~P4~~ **BH1**, exhausting through vents V3 through V5, **using spray cans and hand wiping to apply coatings**, with a maximum throughput of ~~48.0~~ **35** pounds of ~~wood stiles~~ **wood, plastic, glass, metal and some carpet** per hour and ~~9.0 pounds of panelboard per hour~~, and a maximum production capacity of ~~4.2~~ **1.75** travel trailers **(wood, plastic, glass, metal and some carpet)** per hour.

Welding

- ~~(f)~~**(o)** One (1) MIG welding station, capacity: ~~0.354~~ **0.516** pounds of wire per hour.

~~(g)(p)~~ Two (2) stick welding stations, capacity: 1.0 and 7.0 **(0.612 pounds)** electrodes per hour, **each**.

~~(h)~~ One (1) oxyacetylene flame cutting station, capacity: 0.167 inches per minute at a thickness of 0.375 inches.

~~Middlebury Lite Final Finish (Relocated from Dutchmen Manufacturing, CR 38, Goshen, IN)~~

~~(n)~~ One (1) painting area where travel trailers' cabinets, walls, prefinished and assembled campers are coated using aerosol cans, with a maximum capacity of 1.125 units per hour.

~~(n)~~ Woodworking operation, with a maximum throughput of 828.966 pounds per hour of wood. This operation consists of the following equipment:

~~(1)~~ Nine (9) Chop Saws equipped with one (1) portable baghouse identified as M-P6

~~(2)~~ Two (2) Table Saws equipped with one (1) cyclone, identified as M-P5

~~(3)~~ One (1) Belt Sander

~~(4)~~ One (1) Pin Router equipped with one (1) cyclone, identified as M-P5

~~(5)~~ One (1) Band Saw equipped with one (1) cyclone, identified as M-P5

~~(6)~~ One (1) Drill Press

~~(7)~~ Two (2) Radial Arms Saws equipped with one (1) cyclone, identified as M-P5

~~(8)~~ One (1) Grinder

~~(9)~~ One (1) Plasma Cutter

~~These units also use portable back-up baghouse as pollution control equipment, identified as M-P7.~~

SECTION D.1

~~EMMISSIONS EMISSIONS UNITS OPERATION CONDITIONS~~

Emissions Unit Description:

Assembly Building

~~Woodworking operations consist of: three (3) band saws, one (1) chop saw, one (1) drill press, three (3) grinder benches, eighteen (18) mitre saws, one (1) double mitre saw, three (3) radial arm saws, two (2) routers, three (3) table saws and one (1) belt sander.~~

~~Chassis Frame with Floor Preparation~~

- (a) One (1) woodworking and surface coating operation, equipped with a cyclone, P1, exhausting through vents V1 and V2, throughput: 1,125 pounds of preassembled frames per hour, 126 pounds of plywood per hour and 144 pounds of panel board per hour, capacity: 1.2 travel trailers per hour.

Cabinets and Mill

- (b) One (1) woodworking and surface coating operation, equipped with two (2) cyclones, known as P1 and P2, exhausting through vents V1 and V2, throughput: 154.8 pounds of wood per hour, 626.4 pounds of panel board per hour, 43.2 pounds of plywood per hour, and 216 pounds of stiles per hour, capacity: 1.2 travel trailers per hour.

Slide Out Assembly and Installation

- (c) One (1) woodworking and surface coating operation, equipped with two (2) cyclones, known as P1 and P2, exhausting through vents V1 and V2, throughput: 28.8 pounds of Luan per hour, 356.4 pounds of wood per hour, 82.8 pounds of panel board per hour and 28.8 pounds of plywood per hour, capacity: 1.2 travel trailers per hour

Prefinished Travel Trailer (Unit Assembly) Operation

- (d) One (1) woodworking and surface coating operation, equipped with two (2) cyclones, known as P1 and P2, exhausting through vents V1 and V2, throughput: 432 pounds of wood per hour, 82.8 pounds of panel board per hour and 126 pounds of plywood per hour, capacity: 1.2 travel trailers per hour

Final Finish Building

Finished Travel Trailers

- (e) One (1) woodworking and surface coating operation, equipped with a cyclone, known as P3, and one (1) stand-by baghouse, known as P4, exhausting through vents V3 through V5, throughput: 18.0 pounds of wood per hour and 9.0 pounds of panel board per hour, capacity: 1.2 travel trailers per hour

- (f) Woodworking operations consist of: one (1) chop saw and (1) radial arm saw

Middlebury Lite Final Finish

- (m) One (1) painting area where travel trailers' cabinets, walls, prefinished, and assembled campers are coated using aerosol cans, with a capacity of 1.123 units per hour. There are no exhaust stacks, and
- (n) Woodworking operation, equipped with one (1) cyclone, identified as M-P5, and one (1) portable baghouse, identified as M-P6 and one (1) portable baghouse which is a back-up pollution control equipment identified as M-P7, maximum throughput of 828.966 pounds per hour, luan is 131.170 pounds per hour and plywood is 524.565 pounds per hour. This operation consists of the following equipment:
- (1) Nine (9) Chop Saws equipped with one (1) portable baghouse identified as M-P6
 - (2) Two (2) Table Saws equipped with one (1) cyclone, identified as M-P5
 - (3) One (1) Belt Sander
 - (4) One (1) Pin Router equipped with one (1) cyclone, identified as M-P5
 - (5) One (1) Band Saw equipped with one (1) cyclone, identified as M-P5
 - (6) One (1) Drill Press

- ~~_____ (7) Two (2) Radial Arms Saws equipped with one (1) cyclone, identified as M-P5~~
- ~~_____ (8) One (1) Grinder~~
- ~~_____ (9) One (1) Plasma Cutter~~

Stick and Tin Assembly Building

Woodworking operations consist of: three (3) band saws, one (1) chop saw, one (1) drill press, three (3) grinder benches, eighteen (18) mitre saws, one (1) double mitre saw, three (3) radial arm saws, two (2) routers, three (3) table saws and one (1) belt sander.

Chassis Frame with Floor Preparation

- (a) One (1) woodworking and surface coating operation, constructed in 1989/1990, equipped with a cyclone, identified as P1, exhausting through vents V1 and V2, using spray cans and hand wiping to apply coatings to metal and PVC, with a maximum throughput of 1,125 pounds of preassembled frames per hour, 184 pounds of plywood per hour and 210 pounds of panelboard per hour and a maximum production capacity of 1.75 travel trailers per hour.

Cabinets and Mill

- (b) One (1) woodworking and surface coating operation, constructed in 1989/1990, equipped with two (2) cyclones, identified as P1 and P2, exhausting through vents V1 and V2, using spray cans and hand wiping to apply coatings to wood and plastic, with a maximum throughput of 225 pounds of wood and lauan per hour, 913 pounds of panelboard per hour, 63 pounds of plywood per hour, and 315 pounds of stiles per hour, and a maximum production capacity of 1.75 travel trailers per hour.

Slide-Out Assembly and Installation

- (c) One (1) assembly operation, constructed in 1989/1990, with a maximum throughput of 724 pounds of precut roof, wall and roof panels per hour, and a maximum production capacity of 1.75 travel trailers per hour.

Prefinished Travel Trailers (Unit Assembly) Operation

- (d) One (1) woodworking and surface coating operation, constructed in 1989/1990, equipped with two (2) cyclones, identified as P1 and P2, exhausting through vents V1 and V2, using spray cans, brushes, and hand wiping to apply coatings to wood, plastic, and metal, with a maximum throughput of 934 pounds of wood walls and roof panels per hour and a maximum production capacity of 1.75 travel trailers per hour.

Stick and Tin Final Finish Building

Finished Travel Trailers

- (n) One (1) woodworking and surface coating operation, constructed in 1990, consisting of one (1) chop saw and one (1) radial arm saw, equipped with a cyclone, identified as P3, and one (1) stand-by baghouse, identified as BH1, exhausting through vents V3 through V5, using spray cans and hand wiping to apply coatings, with a maximum throughput of 35 pounds of stiles per hour, and a maximum production capacity of 1.75 travel trailers (wood, plastic, glass, metal and some carpet) per hour.

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

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 of VOC in excess of 3.5 pounds of VOC per gallon of coating, excluding water, as delivered to the applicator, **when coating metal.**

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

The VOC usage when cleaning or applying coatings, sealants, solvents, or adhesives to plastic, glass, rubber, and wood parts, other than wood furniture and cabinets, at the stick and tin travel trailer production line, including the chassis and floor preparation, cabinets and mill, slide-out assembly and installation, prefinished travel trailers (unit assembly) operation, and finished travel trailers, shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

D.1.4D.1.5 Particulate Matter (PM) [326 IAC 6-3-2]

~~(a) Pursuant to 326 IAC 6-3-2(d), particulate from the surface coating operations at the Chassis Frame with Floor Preparation, Cabinets and Mill, Slide-out Assembly and Installation, Finished Travel Trailer Area, and Middlebury Lite Final Finish production line shall be controlled by a dry filter, water wash, or an equivalent control device. The Permittee shall operate the control devices in accordance with manufacturer's specifications.~~

~~(1) 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:~~

~~(a) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.~~

~~(b) 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) The particulate matter from the woodworking operations at the **Stick and Tin Assembly Building and Final Finish Building and Middlebury Lite Woodworking Operation** shall not exceed at process weight rates of 1,224, 1,221, and less than 100 pounds per hour shall be accomplished by use of the following equation **limited to E, as follows:**

Process	Process Weight Rate (P) (tons/hr)	Allowable Emission Rate (E) (lbs/hr)
Chassis Frame and Floor Preparation	0.7595	3.41
Cabinets and Mill	0.758	3.41
Prefinished Travel Trailers (Unit Assembly)	0.467	2.46
Finished Travel Trailers	< 100 lbs/hr	0.551

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:

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

Units for Woodworking:	P (tons / hour)	E (pounds / hour)
Chassis Frame & Floor Preparation	0.698	3.222
Cabinets & Mill	0.520	2.645
Slide-Out Assembly & Installation	0.248	1.611
Unit Assembly	0.320	1.911
Final Finish Building	0.014	0.235
Middlebury Lite Final Finish	0.742	3.357

~~D.1.5 Particulate [40CFR 52 Subpart P]~~

~~Pursuant to 40 CFR 52, Subpart P, and MSOP 039-11784-00380, the particulate matter from the surface coating facilities shall be limited by the following:~~

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

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

~~D.1.6 Preventive Maintenance Plan [326 IAC 1-6-3]~~

~~A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for this emissions unit and any control devices.~~

~~D.1.7D.1.6 Particulate Control [326 IAC 6-3-2]~~

~~In order to comply with condition D.1.4 Condition D.1.5:~~

- ~~(a)(1) During woodworking operations the The cyclones, identified as P1 and P2, and P3, and the back-up baghouse P4 (as needed) shall be in operation and control emissions from the woodworking operations at the Stick and Tin Assembly Building at all times the woodworking operations associated with at the Stick and Tin Assembly Building and the Final Finish Building are in operation, in order to comply with the aforementioned limits.~~
- ~~(b)(2) Middlebury Lite Woodworking operation is controlled by M-P5, M-P6, and M-P7. In order to comply with the limit, the cyclone shall be in operation. The cyclone, identified as P3, and the back-up baghouse, identified as BH1 (as needed), shall be in operation and control emissions from the woodworking operations at the Final Finish Building at all times the woodworking operations at the Final Finish Building are in operation.~~

~~D.1.8 Testing Requirements [326 IAC 2-7-6(1), (6)] [326 IAC 2-1.1-11]~~

~~The Permittee is not required to test this emissions unit by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM, compliance with the PM limits specified in Condition D.1.4 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.~~

D.1.9D.1.7 Volatile Organic Compounds (VOC) [326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a)]

Compliance with the VOC content and usage limitations contained in Conditions D.1.1 and D.1.4 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer.

D.1.8 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.

D.1.10 VOC Emissions

Compliance with Condition D.1.1 shall be demonstrated within 30 days of the end of each month based on the total volatile organic compound usage for the twelve (12) month period.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5]

D.1.11 Visible Emissions Notations

- ~~(a) Daily visible emission notations of the cyclones and/or back-up baghouse stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.~~
- ~~(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.~~
- ~~(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.~~
- ~~(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.~~
- ~~(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C Compliance Response Plan Preparation and Implementation shall be considered a deviation from this permit.~~

D.1.12 Baghouse Inspections

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

D.1.13 Broken or Failed Bag Detection

~~In the event that bag failure has been observed:~~

- ~~(a) For multi-compartment units, the affected compartments will be shut down immediately~~

~~until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation and Implementation shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

- ~~(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.~~

D.1.14 Cyclone Inspections

~~An inspection shall be performed each calendar quarter of all cyclones controlling the woodworking operation when venting to the atmosphere. A cyclone inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors.~~

D.1.15 Cyclone Failure Detection

~~In the event that cyclone failure has been observed:~~

~~Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation and Implementation shall be considered a deviation from this permit.~~

D.1.16 D.1.9 Record Keeping Requirements

- (a) ~~To document compliance with Conditions D.1.1 and D.1.4 the Permittee shall maintain records in accordance with (1) through (5) (6) below. Records maintained for (1) through (5) (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Conditions D.1.1 and D.1.4. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.~~

~~(1) The amount and VOC content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;~~

(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.**
 - ~~(2)~~(3) The volume weighted **average** VOC content of the coatings used **on metal** for each ~~month~~ **day**;
 - ~~(3)~~(4) The cleanup solvent usage for each month;
 - ~~(4)~~(5) The total VOC usage **when cleaning or applying coatings, sealants, solvents, or adhesives to plastic, glass, rubber, and wood parts, other than wood furniture and cabinets, at the stick and tin travel trailer production line, including the chassis and floor preparation, cabinets and mill, slide-out assembly and installation, prefinished travel trailers (unit assembly) operation, and finished travel trailers** for each month; and
 - ~~(5)~~(6) The weight of VOCs emitted for each compliance period.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.**
- ~~(b) To document compliance with Condition D.1.10, the Permittee shall maintain records of daily visible emission notations of the woodworking and surface coating stack exhaust.~~
 - ~~(c) To document compliance with Condition D.1.11, and D.1.13, the Permittee shall maintain records of the results of inspections required under D.1.11 and D.1.12 and the dates the vents are redirected.~~
 - ~~(d) To document compliance with D.1.6~~

D.1.10 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.4 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

MSOP Quarterly Report

Source Name: Dutchmen Manufacturing, Inc.
Source Address: 305 Steury Avenue, Goshen, Indiana 46526
Mailing Address: 2164 Caragana Court, Goshen, Indiana 46526
MSOP No.: 039-19951-00380
Facility: Stick and tin travel trailer production line, including the chassis and floor preparation, cabinets and mill, slide-out assembly and installation, prefinished travel trailers (unit assembly) operation, and finished travel trailers
Parameter: VOC usage when cleaning or applying coatings, sealants, solvents, or adhesives to plastic, glass, rubber, and wood parts, other than wood furniture and cabinets
Limit: Less than 25.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

YEAR: _____

Month	VOC Usage (tons)	VOC Usage (tons)	VOC Usage (tons)
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this month.

Deviation/s occurred in this month.
 Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Change 2:

The emission calculations are Appendix A of the TSD, not Appendix A of the Permit. Therefore, the following has been removed from the permit document:

Appendix A

Emission Calculations for:

Dutchmen Manufacturing, Inc.
305 Steury Avenue
Goshen, Indiana 46526
MSOP Renewal 039-19951-00380

Change 3:

There are no compliance monitoring requirements specifically applicable to this source. Therefore, Condition C.11 has been removed from the permit, and the remainder of Section C has been renumbered accordingly.

~~C.11 Compliance Response Plan - Preparation and Implementation~~

- ~~(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ, upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:~~
- ~~(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.~~
 - ~~(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan the Permittee shall amend its Compliance Response Plan to include such response steps taken.~~
- ~~(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:~~
- ~~(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or~~
 - ~~(2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.~~
 - ~~(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter~~

~~with respect to normal, and the results of the response actions taken up to the time of notification.~~

~~(4) Failure to take reasonable response steps shall be considered a deviation from the permit.~~

~~(c) The Permittee is not required to take any further response steps for any of the following reasons:~~

~~(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.~~

~~(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.~~

~~(3) An automatic measurement was taken when the process was not operating.~~

~~(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.~~

~~(d) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.~~

Change 4:

The IDEM, OAQ, Compliance Branch facsimile number, and the first two (2) digits of the year have been revised on the Malfunction Report Form as follows:

FAX NUMBER - 317 233-5967 **6865**

 / /49 **20**

Change 5:

The IDEM, OAQ, zip code has been corrected in all places in the permit, as follows:

~~46206-6015~~ **46204-2251**

Conclusion

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed MSOP Minor Permit Revision No. 039-23811-00380.

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

**Company Name: Dutchmen Manufacturing, Inc.
Address City IN Zip: 305 Steury Avenue, Goshen, IN 46526
Approval No.: MPR 039-23811-00380
Reviewer: CarrieAnn Paukowits
Date: October 23, 2006**

Emissions Increase Due to Revision

Material	Density (lbs/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (units/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 (tons/yr)	lbs VOC/gal solids	Transfer Efficiency	Substrate Coated	
Chassis Frame & Floor*																		
Spray N'Go enamel (touch up)	6.67	90.0%	20.0%	70.0%	14.6%	10.0%	0.048	0.550	5.47	4.67	0.12	2.96	0.54	0.02	46.69	75%	metal	
Oatey PVC cement (30234)	7.75	88.0%	0.00%	88.0%	0.00%	12.0%	0.029	0.550	6.82	6.82	0.11	2.61	0.48	0.00	56.83	100%	PVC	
Cabinets & Mill*																		
Mobibond MB34	9.49	60%	0.0%	60.0%	0.0%	40.00%	0.011	0.550	5.69	5.69	Subtotal 0.03	5.57 0.83	1.02 0.15	0.02 0.00	14.24	100%	wood	
Cyclo silicone C-33	5.25	91.75%	7.5%	84.3%	5.3%	0.00%	0.014	0.550	4.67	4.42	0.03	0.82	0.15	0.00	n/a	75%	wood	
IPS Weld-on Cement (#771)	7.30	72.50%	0.0%	72.5%	0.0%	30.00%	0.007	0.550	5.29	5.29	0.02	0.49	0.09	0.00	17.64	100%	plastic	
Black ABS cement (30892)	7.08	78.00%	0.0%	78.0%	0.0%	22.00%	0.086	0.550	5.52	5.52	0.26	6.27	1.14	0.00	25.10	100%	plastic	
Oatey cleaner (30766)	6.61	100.00%	20.0%	80.0%	0.0%	0.00%	0.057	0.550	5.29	5.29	0.17	3.98	0.73	0.00	n/a	100%	plastic	
Slide-out Assembly*																		
Geocel 2300 sealant	7.92	35.00%	0.0%	35.0%	0.0%	61.00%	0.238	0.550	2.77	2.77	0.36	8.71	1.59	0.00	4.54	100%	wood	
Mobibond MB34	9.49	60.00%	0.0%	60.0%	0.0%	40.00%	0.004	0.550	5.69	5.69	0.01	0.30	0.05	0.00	14.24	100%	wood	
Cyclo silicone C-33	5.25	91.75%	7.5%	84.3%	5.3%	0.00%	0.010	0.550	4.67	4.42	0.02	0.58	0.11	0.00	n/a	75%	metal, wood	
Unit Assembly*																		
905 BA bonding cement	8.20	51%	50.5%	0.5%	50.5%	49.00%	1.500	0.550	0.08	0.04	0.03	0.81	0.15	0.00	0.08	100%	wood, plastic	
Self-leveling Sealant 502LS	9.92	31%	0.0%	30.6%	0.0%	69.40%	0.840	0.550	3.04	3.04	1.40	33.66	6.14	0.00	4.37	100%	plastic	
Geocel 2300 sealant	7.92	35.00%	0.0%	35.0%	0.0%	61.00%	0.448	0.550	2.77	2.77	0.68	16.39	2.99	0.00	4.54	100%	wood	
Oatey cleaner (30766)	6.61	100.00%	20.0%	80.0%	0.0%	0.00%	0.002	0.550	5.29	5.29	0.01	0.14	0.03	0.00	n/a	100%	plastic	
Oatey PVC cement (30234)	7.75	88.0%	0.00%	88.0%	0.00%	12.0%	0.008	0.550	6.82	6.82	0.03	0.72	0.13	0.00	n/a	100%	plastic	
WD 40	6.67	70.0%	0.00%	70.0%	0.00%	30.0%	0.001	0.550	4.67	4.67	0.00	0.05	0.01	0.00	n/a	100%	metal	
Cyclo silicone C-33	5.25	91.75%	7.5%	84.3%	5.3%	0.00%	0.002	0.550	4.67	4.42	0.00	0.12	0.02	0.00	n/a	50%	metal, wood, plastic	
Enerbond SF(Ener 45)	10.01	0.00%	0.0%	0.0%	0.0%	100.00%	0.020	0.550	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%	metal, wood, plastic	
Foam Cleaner (cleanup)	7.99	95.80%	0.0%	95.8%	52.9%	4.00%	0.020	0.550	16.25	7.65	0.08	2.02	0.37	0.00	191.36	75%	metal, wood, plastic	
Final Finish Building																		
Geocel 2300 sealant	7.92	35.00%	0.0%	35.0%	0.0%	61.00%	0.143	0.550	2.77	2.77	0.22	5.23	0.95	0.00	4.54	100%	wood	
Geocel 2000 sealant	8.34	33.50%	15.0%	18.5%	15.0%	66.50%	0.113	0.550	1.82	1.54	0.10	2.30	0.42	0.00	2.32	100%	wood	
Tite R Bond	7.42	98%	0.0%	98.2%	0.0%	1.50%	0.02900	0.550	7.29	7.29	0.12	2.79	0.51	0.00	485.76	75%	wood, plastic	
Touch N'Tone Enamel (55721)	5.56	65.0%	0.0%	65.0%	0.0%	1.0%	0.135	0.550	3.61	3.61	0.27	6.44	1.18	0.16	361.40	75%	wood, plastic	
Cyclo silicone C-33	5.25	91.75%	7.5%	84.3%	5.3%	0.00%	0.072	0.550	4.67	4.42	0.18	4.20	0.77	0.02	n/a	75%	metal, wood, plastic	
Cyclo Brake Cleaner (C-111)	6.34	100.00%	26.0%	74.0%	34.3%	0.00%	0.027	0.550	7.14	4.69	0.07	1.67	0.31	0.00	n/a	100%	wood, plastic, carpet	
Glass Cleaner #40A	8.30	99.86%	87.0%	12.9%	70.0%	1.00%	0.017	0.550	3.56	1.07	0.01	0.24	0.04	0.00	106.74	75%	glass	
Isopropyl alcohol	6.55	100%	0.00%	100%	0.00%	0.00%	0.018	0.550	6.55	6.55	0.07	1.57	0.29	0.00	n/a	100%	wood, plastic	
Mineral Spirits	6.59	100.00%	0.0%	100.0%	0.0%	0.00%	0.097	0.550	6.59	6.59	0.35	8.44	1.54	0.00	n/a	100%	wood plastic	
Subtotal																		
											32.89	6.00	0.18					
<i>* Assembly Building</i>																		
No Controls														114.34	20.87	0.210		

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lbs/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: Emission Calculations
HAP Emission Calculations**

**Company Name: Dutchmen Manufacturing, Inc.
Address City IN Zip: 305 Steury Avenue, Goshen, IN 46526
Approval No.: MPR 039-23811-00380
Reviewer: CarrieAnn Paukowits
Date: October 23, 2006**

Emissions Increase Due to Revision

Material	Density (lbs/gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Weight % Xylene	Weight % Toluene	Weight % MDI	Weight % Hexane	Weight % Cumene	Weight % Vinyl Acetate	Weight % 1,2 Propylenimine	Weight % Glycol Ethers	Xylene Emissions (tons/yr)	Toluene Emissions (tons/yr)	MDI Emissions (tons/yr)	Hexane Emissions (tons/yr)	Cumene Emissions (tons/yr)	Vinyl Acetate Emissions (tons/yr)	1,2 Propylenimine Emissions (tons/yr)	Glycol Ether Emissions (tons/yr)
Chassis Frame & Floor*																			
Spray N'Go enamel (touch up)	6.67	0.048	0.550	5.55%	20.30%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.04	0.16	0.00	0.00	0.00	0.00	0.00	0.00
Oatey PVC cement (30234)	7.75	0.029	0.550	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cabinets & Mill*																			
Mobibond MB34	9.49	0.011	0.550	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclo silicone C-33	5.25	0.014	0.550	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
IPS Weld-on Cement (#771)	7.30	0.007	0.550	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Black ABS cement (30892)	7.08	0.086	0.550	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oatey cleaner (30766)	6.61	0.057	0.550	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slide-out Assembly*																			
Geocel 2300 sealant	7.92	0.238	0.550	1.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobibond MB34	9.49	0.004	0.550	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclo silicone C-33	5.25	0.010	0.550	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
Unit Assembly*																			
905 BA bonding cement	8.20	1.500	0.550	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
Self-leveling Sealant 502LS	9.92	0.840	0.550	0.98%	0.98%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00
Geocel 2300 sealant	7.92	0.448	0.550	1.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oatey cleaner (30766)	6.61	0.002	0.550	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oatey PVC cement (30234)	7.75	0.008	0.550	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WD 40	6.67	0.001	0.550	0.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclo silicone C-33	5.25	0.002	0.550	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Enerbond SF(Ener 45)	10.01	0.020	0.550	0.00%	0.00%	60.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00
Foam Cleaner (cleanup)	7.99	0.020	0.550	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Final Finish Building																			
Geocel 2300 sealant	7.92	0.143	0.550	1.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Geocel 2000 sealant	8.34	0.113	0.550	7.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.16	0.00	0.00	0.00	0.07	0.00	0.00	0.00
Title R Bond	7.42	0.029	0.550	0.00%	2.00%	0.00%	0.00%	0.00%	0.00%	0.08%	0.00%	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.0004
Touch N'Tone Enamel (55721)	5.56	0.135	0.550	0.49%	15.24%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01	0.28	0.00	0.00	0.00	0.00	0.00	0.00
Cyclo silicone C-33	5.25	0.072	0.550	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
Cyclo Brake Cleaner (C-111)	6.34	0.027	0.550	0.00%	30.00%	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
Glass Cleaner #40A	8.30	0.017	0.550	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Isopropyl alcohol	6.55	0.018	0.550	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mineral Spirits	6.59	0.097	0.550	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00

***Assembly Building**

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

Totals	0.699	0.762	0.289	0.496	0.068	0.296	0.0004	0.017
Total HAPs =	2.63							

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

**Company Name: Dutchmen Manufacturing, Inc.
Address City IN Zip: 305 Steury Avenue, Goshen, IN 46526
Approval No.: MPR 039-23811-00380
Reviewer: CarrieAnn Paukowits
Date: October 23, 2006**

Potential to Emit after Revision

Material	Density (lbs/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Gal of Mat. (gal/unit)	Maximum (units/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 (tons/yr)	lbs VOC/gal solids	Transfer Efficiency	Substrate Coated
Chassis Frame & Floor*																	
Spray N'Go enamel (touch up)	6.67	90.0%	20.0%	70.0%	14.6%	10.0%	0.048	1.750	5.47	4.67	0.39	9.41	1.72	0.06	46.69	75%	metal
Oatey PVC cement (30234)	7.75	88.0%	0.00%	88.0%	0.00%	12.0%	0.029	1.750	6.82	6.82	0.35	8.31	1.52	0.00	56.83	100%	PVC
											Subtotal	17.72	3.23	0.06			
Cabinets & Mill*																	
Mobibond MB34	9.49	60%	0.0%	60.0%	0.0%	40.00%	0.011	1.750	5.69	5.69	0.11	2.63	0.48	0.00	14.24	100%	wood
Cyclo silicone C-33	5.25	91.75%	7.5%	84.3%	5.3%	0.00%	0.014	1.750	4.67	4.42	0.11	2.60	0.47	0.01	n/a	75%	wood
IPS Weld-on Cement (#771)	7.30	72.50%	0.0%	72.5%	0.0%	30.00%	0.007	1.750	5.29	5.29	0.06	1.56	0.28	0.00	17.64	100%	plastic
Black ABS cement (30892)	7.08	78.00%	0.0%	78.0%	0.0%	22.00%	0.086	1.750	5.52	5.52	0.83	19.95	3.64	0.00	25.10	100%	plastic
Oatey cleaner (30766)	6.61	100.00%	20.0%	80.0%	0.0%	0.00%	0.057	1.750	5.29	5.29	0.53	12.66	2.31	0.00	n/a	100%	plastic
											Subtotal	39.39	7.19	0.01			
Slide-out Assembly*																	
Geocel 2300 sealant	7.92	35.00%	0.0%	35.0%	0.0%	61.00%	0.238	1.750	2.77	2.77	1.15	27.71	5.06	0.00	4.54	100%	wood
Mobibond MB34	9.49	60.00%	0.0%	60.0%	0.0%	40.00%	0.004	1.750	5.69	5.69	0.04	0.96	0.17	0.00	14.24	100%	wood
Cyclo silicone C-33	5.25	91.75%	7.5%	84.3%	5.3%	0.00%	0.010	1.750	4.67	4.42	0.08	1.86	0.34	0.01	n/a	75%	metal, wood
											Subtotal	30.52	5.57	0.01			
Unit Assembly*																	
905 BA bonding cement	8.20	51%	50.5%	0.5%	50.5%	49.00%	1.500	1.750	0.08	0.04	0.11	2.58	0.47	0.00	0.08	100%	wood, plastic
Self-leveling Sealant 502LS	9.92	31%	0.0%	30.6%	0.0%	69.40%	0.840	1.750	3.04	3.04	4.46	107.09	19.54	0.00	4.37	100%	plastic
Geocel 2300 sealant	7.92	35.00%	0.0%	35.0%	0.0%	61.00%	0.448	1.750	2.77	2.77	2.17	52.16	9.52	0.00	4.54	100%	wood
Oatey cleaner (30766)	6.61	100.00%	20.0%	80.0%	0.0%	0.00%	0.002	1.750	5.29	5.29	0.02	0.44	0.08	0.00	n/a	100%	plastic
Oatey PVC cement (30234)	7.75	88.0%	0.00%	88.0%	0.00%	12.0%	0.008	1.750	6.82	6.82	0.10	2.29	0.42	0.00	n/a	100%	plastic
WD 40	6.67	70.0%	0.00%	70.0%	0.00%	30.0%	0.001	1.750	4.67	4.67	0.01	0.16	0.03	0.00	n/a	100%	metal
Cyclo silicone C-33	5.25	91.75%	7.5%	84.3%	5.3%	0.00%	0.002	1.750	4.67	4.42	0.02	0.37	0.07	0.00	n/a	50%	metal, wood, plastic
Enerbond SF(Ener 45)	10.01	0.00%	0.0%	0.0%	0.0%	100.00%	0.020	1.750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%	metal, wood, plastic
Foam Cleaner (cleanup)	7.99	95.80%	0.0%	95.8%	52.9%	4.00%	0.020	1.750	16.25	7.65	0.27	6.43	1.17	0.01	191.36	75%	metal, wood, plastic
											Subtotal	171.53	31.30	0.02			
Final Finish Building																	
Geocel 2300 sealant	7.92	35.00%	0.0%	35.0%	0.0%	61.00%	0.143	1.750	2.77	2.77	0.69	16.65	3.04	0.00	4.54	100%	wood
Geocel 2000 sealant	8.34	33.50%	15.0%	18.5%	15.0%	66.50%	0.113	1.750	1.82	1.54	0.31	7.32	1.34	0.00	2.32	100%	wood
Tite R Bond	7.42	98%	0.0%	98.2%	0.0%	1.50%	0.02900	1.750	7.29	7.29	0.37	8.87	1.62	0.01	485.76	75%	wood, plastic
Touch N'Tone Enamel (55721)	5.56	65.0%	0.0%	65.0%	0.0%	1.0%	0.135	1.750	3.61	3.61	0.85	20.49	3.74	0.50	361.40	75%	wood, plastic
Cyclo silicone C-33	5.25	91.75%	7.5%	84.3%	5.3%	0.00%	0.072	1.750	4.67	4.42	0.56	13.38	2.44	0.06	n/a	75%	metal, wood, plastic
Cyclo Brake Cleaner (C-111)	6.34	100.00%	26.0%	74.0%	34.3%	0.00%	0.027	1.750	7.14	4.69	0.22	5.32	0.97	0.00	n/a	100%	wood, plastic, carpet
Glass Cleaner #40A	8.30	99.86%	87.0%	12.9%	70.0%	1.00%	0.017	1.750	3.56	1.07	0.03	0.76	0.14	0.00	106.74	75%	glass
Isopropyl alcohol	6.55	100%	0.00%	100%	0.00%	0.00%	0.018	1.750	6.55	6.55	0.21	5.01	0.91	0.00	n/a	100%	wood, plastic
Mineral Spirits	6.59	100.00%	0.0%	100.0%	0.0%	0.00%	0.097	1.750	6.59	6.59	1.12	26.85	4.90	0.00	n/a	100%	wood plastic
											Subtotal	104.65	19.10	0.57			
<i>* Assembly Building</i>																	
											No Controls						
											Total	363.81	66.40	0.668			

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lbs/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lbs/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lbs/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lbs/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: Emission Calculations
HAP Emission Calculations

Company Name: Dutchmen Manufacturing, Inc.
Address City IN Zip: 305 Steury Avenue, Goshen, IN 46526
Approval No.: MPR 039-23811-00380
Reviewer: CarrieAnn Paukowits
Date: October 23, 2006

Potential to Emit after Revision

Material	Density (lbs/gal)	Gallons of Material (gal/unit)	Maximum unit/hour	Weight % Xylene	Weight % Toluene	Weight % MDI	Weight % Hexane	Weight % Cumene	Weight % Vinyl Acetate	Weight % 1,2 Propylenimine	Weight % Glycol Ethers	Xylene Emissions (tons/yr)	Toluene Emissions (tons/yr)	MDI Emissions (tons/yr)	Hexane Emissions (tons/yr)	Cumene Emissions (tons/yr)	Vinyl Acetate Emissions (tons/yr)	1,2 Propylenimine Emissions (tons/yr)	Glycol Ether Emissions (tons/yr)	Total HAPs Emissions (tons/yr)
Chassis Frame & Floor*																				
Spray N'Go enamel (touch up)	6.67	0.048	1.750	5.55%	20.30%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.14	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.63
Oatey PVC cement (30234)	7.75	0.029	1.750	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cabinets & Mill*																				
Mobibond MB34	9.49	0.011	1.750	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclo silicone C-33	5.25	0.014	1.750	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.23
IPS Weld-on Cement (#771)	7.30	0.007	1.750	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Black ABS cement (30892)	7.08	0.086	1.750	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oatey cleaner (30766)	6.61	0.057	1.750	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slide-out Assembly*																				
Geocel 2300 sealant	7.92	0.238	1.750	1.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
Mobibond MB34	9.49	0.004	1.750	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclo silicone C-33	5.25	0.010	1.750	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.16
Unit Assembly*																				
905 BA bonding cement	8.20	1.500	1.750	0.00%	0.00%	0.00%	0.00%	0.00%	1.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.94
Self-leveling Sealant 502LS	9.92	0.840	1.750	0.98%	0.98%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.62	0.62	0.00	0.00	0.00	0.00	0.00	0.00	1.25
Geocel 2300 sealant	7.92	0.448	1.750	1.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
Oatey cleaner (30766)	6.61	0.002	1.750	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oatey PVC cement (30234)	7.75	0.008	1.750	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WD 40	6.67	0.001	1.750	0.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclo silicone C-33	5.25	0.002	1.750	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03
Enerbond SF(Ener 45)	10.01	0.020	1.750	0.00%	0.00%	60.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.92
Foam Cleaner (cleanup)	7.99	0.020	1.750	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Final Finish Building																				
Geocel 2300 sealant	7.92	0.143	1.750	1.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
Geocel 2000 sealant	8.34	0.113	1.750	7.00%	0.00%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	0.51	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.72
Tite R Bond	7.42	0.029	1.750	0.00%	2.00%	0.00%	0.00%	0.00%	0.00%	0.08%	0.00%	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Touch N'Tone Enamel (55721)	5.56	0.135	1.750	0.49%	15.24%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.91
Cyclo silicone C-33	5.25	0.072	1.750	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00	1.16
Cyclo Brake Cleaner (C-111)	6.34	0.027	1.750	0.00%	30.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.39
Glass Cleaner #40A	8.30	0.017	1.750	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05
Isopropyl alcohol	6.55	0.018	1.750	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mineral Spirits	6.59	0.097	1.750	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05

***Assembly Building**

Totals 2.22 2.42 0.921 1.58 0.217 0.943 0.001 0.054 8.36

HAP from Spray N'Go enamel includes 5% xylenes in the Aromatic hydrocarbon (CAS 64742-95-6) and 3% toluene and 3% xylenes in the Aliphatic Petroleum Distillate (CAS 64742-89-8)
HAP from Geocel 2300 Sealant includes 5% xylenes in the Aromatic hydrocarbon (CAS 64742-95-6)
HAP from the 502 LS Self-leveling sealant includes 3% toluene and 3% xylenes in the VM & P Naptha (CAS 64742-89-8)
HAP from the WD-40 includes 1% xylenes in the Aliphatic Petroleum Distillates (CAS 8052-41-3)
HAP from the Mineral Spirits includes 1% xylenes in the Aliphatic Naphtha (CAS 8052-41-3)
HAP from Touch N'Tone enamel includes 5% xylenes in the Aromatic hydrocarbon (CAS 64742-95-6) and 3% toluene and 3% xylenes in the Aliphatic Petroleum Distillate (CAS 64742-89-8)

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
Natural Gas Combustion Only
MM BTU/HR <100**

Company Name: Dutchmen Manufacturing, Inc.
Address City IN Zip: 305 Steury Avenue, Goshen, IN 46526
Approval No.: MPR 039-23811-00380
Reviewer: CarrieAnn Paukowits
Date: October 23, 2006

Existing Facilities

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

4.68

41.0

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100 **see below	5.50	84.0
Potential Emission in tons/yr	0.039	0.156	0.012	2.05	0.113	1.72

*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

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	0.00210	0.00120	0.07500	1.80000	0.00340
Potential Emission in tons/yr	0.00004	0.00002	0.00154	0.03686	0.00007

Emission Factor in lb/MMcf	HAPs - Metals					Total
	Lead	Cadmium	Chromium	Manganese	Nickel	
	0.0005	0.0011	0.0014	0.0004	0.0021	
Potential Emission in tons/yr	0.00001	0.00002	0.00003	0.000008	0.00004	0.039

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

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

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

Appendix A: Welding and Thermal Cutting

Company Name: Dutchmen Manufacturing, Inc.
 Address City IN Zip: 305 Steury Avenue, Goshen, IN 46526
 Approval No.: MPR 039-23811-00380
 Reviewer: CarrieAnn Paukowits
 Date: October 23, 2006

Existing Facilities

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS * (lb pollutant / lb electrode)				EMISSIONS (lb/hr)				TOTAL HAPS (lb/hr)
			PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING											
Metal Inert Gas (MIG)(ER5154)	1	0.516	0.0241	0.00003		0.00001	0.012	0.00002	0.000	5.16E-06	0.00002
Stick (E7018 electrode)	2	0.612	0.0211	0.0009			0.026	0.001102	0.000	0	0.0011016
EMISSION TOTALS							PM = PM10	Mn	Ni	Cr	Total HAPs
Potential Emissions lbs/hr							0.038	0.00	0.00	0.00	0.00
Potential Emissions lbs/day							0.918	0.027	0.00	0.00	0.027
Potential Emissions tons/year							0.168	0.005	0.00000	0.00002	0.005

METHODOLGY

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column. Consult AP-42 or other reference for different electrode types.
 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/day x 1 ton/2,000 lbs.
 See AP-42, Chapter 12.19 for additional emission factors for welding.

**Appendix A: Emission Calculations
Baghouse Operations**

**Company Name: Dutchmen Manufacturing, Inc.
Address City IN Zip: 305 Steury Avenue, Goshen, IN 46526
Approval No.: MPR 039-23811-00380
Reviewer: CarrieAnn Paukowits
Date: October 23, 2006**

Existing Facilities

Unit ID	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.)	Gas or Air Flow Rate (acfm.)	Emission Rate before Controls (lb/hr)	Emission Rate before Controls (tons/yr)	Emission Rate after Controls (lb/hr)	Emission Rate after Controls (tons/yr)
P1	99.0%	0.002200	2000.0	3.77	16.52	0.038	0.165
P2	99.0%	0.002200	3900.0	7.35	32.21	0.074	0.322
P3	99.0%	0.002200	2725.0	5.14	22.51	0.051	0.225
BH1	99.0%	0.000480	1900.0	0.782	3.42	0.008	0.034
				Total	71.2		0.712

Methodology

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

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

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

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

**Appendix A: Emission Calculations
Fuel Tanks and Dispensing**

Company Name: Dutchmen Manufacturing, Inc.
Address City IN Zip: 305 Steury Avenue, Goshen, IN 46526
Approval No.: MPR 039-23811-00380
Reviewer: CarrieAnn Paukowits
Date: October 23, 2006

Existing Facilities

Vehicle Refueling

Source	Disp. Emission Factor (lbs/1000gal)	Annual Throughput (gallons)	VOC Emissions (lbs/yr)	VOC Emissions (tons/yr)	Spill Emission Factor (lbs/1000gal)	Annual Throughput (gallons)	VOC Emissions (lbs/yr)	VOC Emissions (tons/yr)	Total VOC Emissions (tons/yr)
Gasoline Dispensing	11.0	64000	704.0	0.352	0.7	64000	44.800	0.0224	0.3744
Diesel Dispensing	11.0	5200	57.2	0.029	0.7	5200	3.640	0.0018	0.0304

Methodology

VOC emission factors from AP-42, Chapter 5

Tanks Emissions

	VOC Emissions (tons/yr)
Gasoline Tanks	0.411
Diesel Tanks	0.0002
Total	0.411

Emissions based upon Tanks 4.0.9d

**Appendix A: Emissions Calculations
Total Emissions Summary**

**Company Name: Dutchmen Manufacturing, Inc.
Address City IN Zip: 305 Steury Avenue, Goshen, IN 46526
Approval No.: MPR 039-23811-00380
Reviewer: CarrieAnn Paukowitz
Date: October 23, 2006**

**Proposed Modification
Unrestricted Potential Emissions**

Process	PM	PM10	SO2	NOx	VOC	CO	Toluene	Hexane	Xylene	MDI	Cumene	Vinyl Acetate	1,2 Propyl- enimine	Glycol Ethers	Form- aldehyde	Manganese	Total HAPs
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)											
Increase in existing coating	0.210	0.210	0.000	0.000	20.9	0.000	0.762	0.496	0.699	0.289	0.068	0.296	0.0004	0.017	0.000	0.000	2.63

**Entire Source After Issuance
Unrestricted Potential Emissions**

Process	PM	PM10	SO2	NOx	VOC	CO	Toluene	Hexane	Xylene	MDI	Cumene	Vinyl Acetate	1,2 Propyl- enimine	Glycol Ethers	Form- aldehyde	Manganese	Total HAPs
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
Assembly Building																	
Coating	0.097	0.097	0.000	0.000	47.3	0.000	1.12	0.419	1.49	0.921	0.000	0.943	0.0000	0.000	0.000	0.000	4.89
Woodworking	48.7	48.7	0.000	0.000	0.000	0.000	0.00	0.000	0.00	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.00
Storage Tanks	0.000	0.000	0.000	0.000	0.816	0.000	0.00	0.000	0.00	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.816
Combustion	0.039	0.156	0.012	2.05	0.113	1.72	0.00	0.037	0.00	0.000	0.000	0.000	0.0000	0.000	0.002	0.000	0.04
Assembly Building Total	48.9	49.0	0.012	2.05	48.2	1.72	1.12	0.455	1.49	0.921	0.000	0.943	0.000	0.000	0.002	0.000	5.75
Final Finish Building																	
Coating	0.571	0.571	0.000	0.000	19.1	0.000	1.30	1.16	0.735	0.000	0.217	0.000	0.001	0.054	0.000	0.000	3.47
Woodworking	25.9	25.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.00
Welding	0.168	0.168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.005	0.005
Final Finish Building Total	26.7	26.7	0.000	0.000	19.1	0.000	1.30	1.16	0.735	0.000	0.217	0.000	0.001	0.054	0.000	0.005	3.47
Overall Total	75.5	75.7	0.012	2.05	67.3	1.72	2.42	1.61	2.22	0.921	0.217	0.943	0.001	0.054	0.002	0.005	9.22

Limited Potential to Emit

Process	PM	PM10	SO2	NOx	VOC	CO	Toluene	Hexane	Xylene	MDI	Cumene	Vinyl Acetate	1,2 Propyl- enimine	Glycol Ethers	Form- aldehyde	Manganese	Total HAPs
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
Assembly Building																	
Coating	0.097	0.097	0.000	0.000	31.6	0.000	1.12	0.419	1.49	0.921	0.000	0.943	0.000	0.000	0.000	0.000	4.891
Woodworking	40.6	40.6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Storage Tanks	0.000	0.000	0.000	0.000	0.816	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.816
Combustion	0.039	0.156	0.012	2.05	0.113	1.72	0.000	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.039
Assembly Building Total	40.7	40.9	0.012	2.05	32.5	1.72	1.12	0.455	1.49	0.921	0.000	0.943	0.000	0.000	0.002	0.000	5.75
Final Finish Building																	
Coating	0.571	0.571	0.000	0.000	above	0.000	1.30	1.16	0.735	0.000	0.217	0.000	0.001	0.054	0.000	0.000	3.47
Woodworking	2.41	2.41	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Welding	0.168	0.168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005
Final Finish Building Total	3.15	3.15	0.000	0.000	above	0.000	1.30	1.159	0.735	0.000	0.217	0.000	0.001	0.054	0.000	0.005	3.47
Overall Total	43.9	44.0	0.012	2.05	32.5	1.72	2.42	1.61	2.22	0.921	0.217	0.943	0.001	0.054	0.002	0.005	9.22

Particulate from the woodworking is limited by 326 IAC 6-3-2

VOC from coating is limited to less than 25 tons/yr from coatings not applied to metal and wood furniture and cabinets, plus the unrestricted potential emissions from coatings applied to metal and wood cabinets.

Entire Source Prior to Issuance

Limited Potential to Emit

Process	PM	PM10	SO2	NOx	VOC	CO	Toluene	Hexane	Xylene	MDI	Cumene	Vinyl Acetate	1,2 Propyl- enimine	Glycol Ethers	Form- aldehyde	Total HAPs
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
Assembly Building																
Coating	0.067	0.067	0.000	0.000	32.4	0.000	0.769	0.287	1.02	0.632	0.000	0.646	0.000	0.000	0.000	3.354
Woodworking	34.1	34.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Storage Tanks	0.000	0.000	0.000	0.000	0.816	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.816
Combustion	0.039	0.156	0.012	2.048	0.113	1.720	0.000	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.039
Assembly Building Total	34.2	34.3	0.012	2.05	33.4	1.72	0.769	0.324	1.020	0.632	0.000	0.646	0.000	0.000	0.002	4.21
Final Finish Building																
Coating	0.392	0.392	0.000	0.000	13.1	0.000	0.894	0.795	0.504	0.000	0.149	0.000	0.001	0.037	0.000	2.379
Woodworking	1.03	1.03	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Welding	0.168	0.168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005
Final Finish Building Total	1.59	1.59	0.000	0.000	13.1	0.000	0.894	0.795	0.504	0.000	0.149	0.000	0.001	0.037	0.000	2.384
Overall Total	35.8	35.9	0.012	2.05	46.5	1.72	1.66	1.12	1.52	0.632	0.149	0.646	0.001	0.037	0.002	6.59

Particulate from the woodworking is limited by 326 IAC 6-3-2

This does not include units removed from the source