



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: September 7, 2011

RE: Dutchmen Manufacturing Inc. / 085-30797-00125

FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from 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-AM.dot12/3/07



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Jeffrey Chiddister
Dutchmen Manufacturing, Inc.
P O Box 2164 Caragana Ct.
Goshen, IN, 46527

September 7, 2011

Re: Exempt Construction and Operation Status,
085-30797-00125

Dear Mr. Chiddister:

The application from Dutchmen Manufacturing, Inc., received on August 16, 2011, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-1.1-3, it has been determined that the following stationary travel trailer countertop production facility, located at 813 W Brooklyn St., Syracuse, IN, 46567 is classified as exempt from air pollution permit requirements:

- (a) One (1) classic line jet pin router, identified as CNC1, approved for construction in 2011, equipped with cyclone DC1 for particulate control, with maximum throughput of 170.5 pounds of wood per hr, exhausting outside.
- (b) One (1) classic line jet pin router, identified as CNC2, approved for construction in 2011, equipped with cyclone DC2 for particulate control, with maximum throughput of 170.5 pounds of wood per hr, exhausting outside.

The cyclones DC1 and DC2 are considered integral to the woodworking process.

- (c) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, including:
 - (1) Nine (9) natural gas-fired radiant heater, identified as H1-H5, and H8-H11, capacity: 0.250 million British thermal units per hour (mmBtu/hr) each.
 - (2) Two (2) natural gas-fired space heaters, identified as H6 and H7, capacity: capacity 0.30 million British thermal units per hour (mmBtu/hr) each.

The following conditions shall be applicable:

- 1. 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
 - (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

2. 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
3. 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the woodworking routers CNC1 and CNC2 shall not exceed 0.787 pounds per hour each when operating at a process weight rate of 0.085 tons per hour each. The pound per hour limitation was calculated with the following equation:

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

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

In order to comply with above condition the integral cyclone for particulate control shall be in operation and control emissions from the woodworking operation, at all times the wood working facility is in operation.

Compliance Monitoring/determining

- (a) Cyclone Inspections
An inspection shall be performed each calendar quarter of all cyclones controlling the woodworking operation.
- (b) 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. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

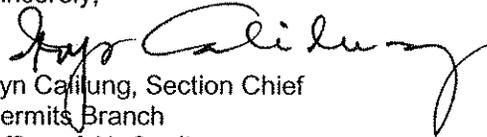
Record Keeping Requirement

To document the compliance status the Permittee shall maintain records of the results of the inspections required.

This exemption is the first air approval issued to this source. A copy of the Exemption is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source. If you have any questions on this matter, please contact Swarna Prabha, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, at 317-234-5376 or at 1-800-451-6027 (ext 45376).

Sincerely,



Iryn Capilung, Section Chief
Permits Branch
Office of Air Quality

IC /sp

cc: File - Elkhart County
Elkhart County Health Department
Compliance and Enforcement Branch
Billing, Licensing and Training Section

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for an Exemption

Source Description and Location

Source Name:	Dutchmen Manufacturing, Inc.
Source Location:	813 W. Brooklyn St., Syracuse, In 46567
County:	Kosciusko
SIC Code:	3792 (Travel Trailers and Campers)
Exemption No.:	085-30797-00125
Permit Reviewer:	Swarna Prabha

On August 16, 2011 the Office of Air Quality (OAQ) received an application from Dutchmen Manufacturing, Inc. related to the construction and operation of a new stationary travel trailer countertop production facility.

Existing Approvals

There have been no previous approvals issued to this source.

County Attainment Status

The source is located in Kosciusko County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM _{2.5} .	

- (a) **Ozone Standards**
 Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Kosciusko County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM_{2.5}**
 Kosciusko County has been classified as attainment for PM_{2.5}. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions. These rules became effective on July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM_{2.5} emissions until 326 IAC 2-2 is revised.

- (c) Other Criteria Pollutants
Kosciusko County has been classified as attainment or unclassifiable in Indiana for all other criteria air pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

The fugitive emissions of criteria pollutants, hazardous air pollutants, and greenhouse gases are counted toward the determination of 326 IAC 2-1.1-3 (Exemptions) applicability.

Background and Description of Emission Units and Pollution Control Equipment

The Office of Air Quality (OAQ) has reviewed an application, submitted by Dutchmen Manufacturing, Inc. on August 16, 2011, relating to a new stationary countertop production facility.

The following is a list of the new emission units and pollution control device(s):

- (a) One (1) classic line jet pin router, identified as CNC1, approved for construction in 2011, equipped with cyclone DC1 for particulate control, with maximum throughput of 170.5 pounds of wood per hr, exhausting outside.
- (b) One (1) classic line jet pin router, identified as CNC2, approved for construction in 2011, equipped with integral cyclone DC2 for particulate control, with maximum throughput of 170.5 pounds of wood per hr, exhausting outside.

NOTES: These Classic Line CNC Router processes were originally located at 2415 Caragana Ct. Goshen, IN, and being moved to 813 W. Brooklyn, Syracuse, IN 46567. Therefore, these processes are considered as new emission units in this location. The combined process throughput for both routers is 341.0 lbs/hr. The cyclones DC1 and DC2 are considered integral to the woodworking process.

- (c) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, including:
- (1) Nine (9) natural gas-fired radiant heater, identified as H1-H5, and H8-H11, capacity: 0.250 million British thermal units per hour (mmBtu/hr) each.
- (2) Two (2) natural gas-fired space heaters, identified as H6 and H7, capacity: capacity 0.30 million British thermal units per hour (mmBtu/hr) each.

NOTE: Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit 100,000 tons per year or more of CO₂ equivalent emissions (CO₂e). Therefore, CO₂e emissions have been calculated for this source. Based on the calculations the unlimited potential to emit greenhouse gases from the entire source is less than 100,000 tons of CO₂e per year (see TSD Appendix A for detailed calculations).

“Integral Part of the Process” Determination

In October 1993 a Final Order Granting Summary Judgment was signed by Administrative Law Judge (“ALJ”) Garrettson resolving an appeal filed by Kimball Hospitality Furniture Inc. (Cause Nos. 92-A-J-730 and 92-A-J-833) related to the method by which IDEM calculated potential emissions from woodworking operations. In his findings, the ALJ determined that particulate controls are necessary for the facility to produce its normal product and are integral to the normal operation of the facility, and therefore, potential emissions should be calculated after controls. Based on this ruling, potential emissions for particulate

matter were calculated after consideration of the controls.

Enforcement Issues

There are no pending enforcement actions related to this source.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – Exemption

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	Potential To Emit of the Entire Source (tons/year)									
	PM	PM10*	PM2.5	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
***Classic Line CNC1 Router Cyclone/Dust Collector DC1	0.225	0.225	0.225	0	0	0	0	0	0	0
***Classic Line CNC2 Router Cyclone/Dust Collector DC2	0.747	0.747	0.747	0	0	0	0	0	0	0
Natural gas combustion H1-H5 and H8-H11	0.024	0.095	0.095	0.007	1.25	0.069	1.05	1,507	0.024	0.022 (Hexane)
Total PTE of Entire Source	0.996	1.067	1.067	0.007	1.25	0.069	1.05	1,507	0.024	0.022 (Hexane)
Exemptions Levels**	5	5	5	10	10	5	25	100,000	25	10
Registration Levels**	25	25	25	25	25	25	100	100,000	25	10

*Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".
 **The 100,000 CO₂e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.
 ***Potential to emit particulate from the CNC routers are after control because the controls are considered integral to the process in wood cutting operation. This is used for permit level determination only.

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of all regulated criteria pollutants are less than the levels listed in 326 IAC 2-1.1-3(e)(1). Therefore, the source is subject to the provisions of 326 IAC 2-1.1-3 (Exemptions).
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

- (c) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) greenhouse gases (GHGs) is less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

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

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (a) This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 63, Subpart JJ, Wood Furniture Manufacturing (40 CFR Part 63.800 - 63.808) (326 IAC 20-14-1), because this source is not a major source of HAPs as defined in 40 CFR 63.2 and does not manufacture wood furniture or wood furniture components.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

The following state rules are applicable to the source:

326 IAC 2-1.1-3 (Exemptions)

Exemption applicability is discussed under the Permit Level Determination – Exemption section above.

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

The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.

326 IAC 2-6 (Emission Reporting)

Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

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

- (1) 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.

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

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

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

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

The source is not subject to the requirements of 326 IAC 6-5, because the source does not have potential fugitive particulate emissions greater than 25 tons per year. Therefore, 326 IAC 6-5 does not apply.

Woodworking Operation- CNC Routers

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

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the woodworking routers CNC1 and CNC2 shall not exceed 0.787 pounds per hour when operating at a process weight rate of 0.085 tons per hour each. The pound per hour limitation was calculated with the following equation:

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

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

The source is able to comply with the above limit, because the emissions from each router are less than the allowable. See TSD Appendix A.

OAQ has determined the control devices are integral to each of the wood working operation. Potential emissions were calculated after controls. The respective control device system, must be in operation at all times when the wood working is in operation in order to comply with this limit. The Permittee shall operate the control device in accordance with manufacturer's specifications.

Natural gas -fired space heaters

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

The natural gas fired radiant oven and space heaters are exempt from the requirements of 326 IAC 6-2 since it is a source of direct heating.

326 IAC 7-1 (Sulfur Dioxide Emissions Limitations)

The requirements of 326 IAC 7-1.1 are not applicable to the radiant oven and space heaters because the potential to emit sulfur dioxide (SO₂) from the RPC oven is less than ten (10) pounds per hour and twenty-five (25) tons per year.

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

The natural gas-fired radiant oven and space heaters have potential emissions less than five hundred fifty-one thousandths (0.551) pound per hour each, therefore are exempt.

Compliance Monitoring/determination Requirements

The integral cyclones shall be inspected each calendar quarter and will be replaced if defective.

- (a) Cyclone Inspections
An inspection shall be performed each calendar quarter of cyclones (DC1 and DC2) controlling the Classic travel trailer countertop production facility 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.
- (b) 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. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (c) Record Keeping Requirement
To document the compliance status the Permittee shall maintain records of the results of the inspections required.

Conclusion and Recommendation

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 August 16, 2011.

The construction and operation of this source shall be subject to the conditions of the attached proposed Exemption No. 085-30797-00125. The staff recommends to the Commissioner that this Exemption be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Swarna Prabha at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) (234-5376 number) or toll free at 1-800-451-6027 extension (45376).
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.in.gov/idem

Appendix A: Emission Calculations
Emission Summary

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Company Name: Dutchmen Manufacturing, Inc.
Address City IN Zip: 813 W. Brooklyn, Syracuse, IN 46567
Permit: 085-30797-00125
Permit Reviewer: Swarna Prabha

Process/Emission Unit	PM	PM10	*PM2.5	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e	Total HAPs	Worst Single HAP
**Classic Line CNC1 Router Cyclone/Dust Collector DC1	0.225	0.225	0.225	0.000	0.000	0.000	0.000	0.000	0.000	0.000
**Classic Line CNC2 Router Cyclone/Dust Collector DC2	0.747	0.747	0.747	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Natural gas combustion H1-H5 and H8-H11	0.024	0.095	0.095	0.007	1.248	0.069	1.049	1507.076	0.024	0.022
Total PTE of Entire Source	0.996	1.067	1.067	0.007	1.248	0.069	1.049	1507.076	0.024	0.022

*Direct PM2.5

**In October 1993 a Final Order Granting Summary Judgment was signed by Administrative Law Judge ("ALJ") Garrettson resolving an appeal filed by Kimball Hospitality Furniture Inc. (Cause Nos. 92-A-J-730 and 92-A-J-833) related to the method by which IDEM calculated potential emissions from woodworking operations. In his findings, the ALJ determined that particulate controls are necessary for the facility to produce its normal product and are integral to the normal operation of the facility, and therefore, potential emissions for particulate matter were calculated after consideration of the controls.

Appendix A: Emission Calculation:
Routers CNC1 and CNC2 Woodworking Operations

Company Name: Dutchmen Manufacturing, Inc.
Address City IN Zip: 813 W. Brooklyn, Syracuse, IN 46567
Permit: 085-30797-00125
Permit Reviewer: Swarna Prabha

Unit ID	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.)	Gas or Air Flow Rate (acfm.)	PM /PM10 /PM2.5 before Controls (lb/hr)	PM /PM10 /PM2.5 before Controls (tons/yr)	PM /PM10 /PM2.5 after Controls (lb/hr)	*PM /PM10 /PM2.5 after Controls (tons/yr)
Classic Line CNC1 Router Cyclone/Dust Collector DC1	99.00%	0.00220	2725	5.14	22.5	0.051	0.225
Classic Line CNC2 Router Cyclone/Dust Collector DC2	90.00%	0.00510	3900	1.70	7.5	0.170	0.747

Totals: 7 30 0.22 0.97

Controlled Emissions

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

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

Uncontrolled emissions

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)

Natural Gas Combustion Only
MM BTU/HR <100

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Company Name: Dutchmen Manufacturing, Inc.
Address City IN Zip: 813 W. Brooklyn, Syracuse, IN 46567
Permit: 085-30797-00125
Permit Reviewer: Swarna Prabha

Heat Input capacity (MMBtu/hr)		
2.25	0.250 each	(9) H1-H5, H8-H11
0.60	0.30	(2) H6-H7
2.85	TOTAL MMBtu (11 heaters)	

Heat Input Capacity
MMBtu/hr
2.85

Potential Throughput
MMCF/yr
25.0

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	0.024	0.095	0.007	1.25	0.069	1.049

*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 = 3

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	0.00003	0.00001	0.00094	0.02247	0.00004

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	0.000006	0.00001	0.00002	0.000005	0.00003	0.024

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

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons/yr	1,498	0.03	0.03
Summed Potential Emissions in tons/yr	1,498		
CO2e Total in tons/yr	1,507		

Methodology

The CO2 Emission Factor for #1 Fuel Oil is 21500. The CO2 Emission Factor for #2 Fuel Oil is 22300.
Emission Factors are from AP 42, Tables 1.3-3, 1.3-8, and 1.3-12 (SCC 1-03-005-01/02/03) Supplement E 9/99 (see erata file)
Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) +
N2O Potential Emission ton/yr x N2O GWP (310).

fort&2ind.xls 9/95
updated 7/11



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Jeffery Chiddister
Dutchmen Mfg, Inc.
PO Box 2164
Goshen, IN 46526

DATE: September 7, 2011

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
Exemption
085-30797-00125

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	CDENNY 9/7/2011 Dutchmen Mfg. Inc. 085-30797-00067 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

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1		Jeffery Chiddister Dutchmen Mfg, Inc. PO Box 2164 Goshen IN 46526 (Source CAATS)										
2		Don Clark President Dutchmen Mfg, Inc. PO Box 2164 Goshen IN 46526 (RO CAATS)										
3		Mr. Charles L. Berger Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 (Affected Party)										
4		Kosciusko County Board of Commissioners 100 W. Center St, Room 220 Warsaw IN 46580 (Local Official)										
5		Mr. Tim Thomas c/o Boilermakers Local 374 6333 Kennedy Ave. Hammond IN 46333 (Affected Party)										
6		Kosciusko County Health Department 100 W. Center Street, 3rd Floor Warsaw IN 46580-2877 (Health Department)										
7		Rick & Jo Ellen Jackson 7163 W 200 N Warsaw IN 46580 (Affected Party)										
8		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)										
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