



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: April 27, 2007  
RE: Carriage, Inc. / 039-24501-00456  
FROM: Nisha Sizemore  
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, Room 1049, 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.dot 03/23/06



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 Indianapolis, Indiana 46204-2251  
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**April 27, 2007**

Ms. Kathy Fuller  
 Carriage, Inc.  
 P.O. Box 246  
 Millersburg, Indiana 46543-0246

Re: 039-24501-00456  
 First Administrative Amendment to  
 FESOP 039-17622-00456

Dear Ms. Fuller:

Carriage, Inc. was issued a Federally Enforceable State Operating Permit (FESOP) on December 5, 2005 for a recreational vehicle (RV) and Class C motor home manufacturing source, located at 210 Wabash Street, Millersburg, Indiana 46543. A letter was received on March 29, 2007 requesting the following changes to the permit:

The Permittee requested IDEM revise the descriptive information in the permit to reflect the consolidation of most of the existing production operations located in various buildings at Carriage, Inc. into one new building at the same location identified as Building 1. The relocated equipment is as follows:

Original Location in FESOP 039-17622-00456	Operation	Revised Location in AA 039- 24501-00456
Building 3	Surface Coating	Building 1
Building 5	Surface Coating	Building 1
Building 7	Surface Coating and Woodworking	Building 1
Building 8	Floor Department (Without Surface Coating Operation)	Building 1
Building 9	Surface Coating and Woodworking	Building 1
Building 12	Surface Coating and Woodworking	Building 8

The Permittee also requested to add six (6) new natural gas-fired enclosed forced air space heaters and four (4) new chop saws to be located in Building 1 and a new surface coating operation to be located in Buildings 3 and 7. After relocation of equipment from Building 12, that building will be permanently removed. The new surface coating units in Buildings 3 and 7 are not subject to the requirements of 326 IAC 8-1-6 (BACT), because they do not have the potential to emit VOC equal to or greater than twenty-five (25) tons per year. Pursuant to 326 IAC 6-3-1(b)(14), the woodworking operations to be located in Building 1 are not subject to the requirements of 326 IAC 6-3 because they each have potential particulate emissions less than five hundred fifty-one thousandths (0.551) pound per hour.

After the removal of equipment and addition of new equipment, the potential to emit of PM10 and VOC from the entire source is still greater than 100 tons per year, and the potential to emit of a single HAP and combined HAPs is still greater than 10 and 25 tons per year, respectively. The permit as amended by AA 039-24501-00456 will still contain conditions to limit the total potential to emit to less than 100 tons per year of PM10 and VOC, less than 10 tons per year of a single HAP, and less than 25 tons per year of combined HAPs as shown in the table below.

	PM	PM10	SO2	NOx	VOC	CO	HAPs
Total Limited PTE from TSD for FESOP 039-17622-00456	87.1	87.6	0.045	7.46	99.7	6.27	Less than 10 and Less than 25
Units Removed:							
Building 8 Surface Coating	(1.50)	(1.50)	--	--	(*)	--	(*)
Building 12 Space Heaters	(4.16E-03)	(0.02)	(1.31E-03)	(0.22)	(0.01)	(0.18)	(4.13E-03)
Woodworking Units (Buildings 7 and 9)	(17.6)	(17.6)	--	--	--	--	--
New Units:							
New Natural Gas Combustion	0.02	0.09	7.42E-03	1.24	0.07	1.04	0.02
New Controlled Woodworking**	2.76	2.76	--	--	--	--	--
New Uncontrolled Woodworking (Including New Chop Saws)**	1.26	1.26	--	--	--	--	--
New Surface Coating	0.52	0.52	--	--	(*)	--	(*)
<b>Revised PTE After Issuance</b>	<b>72.6</b>	<b>73.1</b>	<b>0.05</b>	<b>8.48</b>	<b>99.8</b>	<b>7.12</b>	<b>Less than 10 and Less than 25</b>

\*The VOC and HAP limits for surface coating are not being changed in this permit. The new surface coating units will comply with the existing limits.

\*\*New woodworking units are actually existing units that are being relocated to Building 1; however, they are shown as new emissions above because several units will be operating with new control devices and several units will now be operating with no control device.

Pursuant to 326 IAC 2-8-10(a)(6), and because the new units being added have potential emissions less than the thresholds listed in 326 IAC 2-8-11.1(d)(4), these changes to the permit have been made through an administrative amendment.

Pursuant to the provisions of 326 IAC 2-8-10, the permit is hereby administratively amended as follows with deleted language shown in ~~strikeout~~ and new language shown in **bold**:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

- (a) **Building 1 (Slide-out Assembly, Final and Interior Finish, Floor Department, Assembly and Cabinet Construction)**
- (1) **miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour (previously located in Building 3).**
  - (2) **miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour (previously located in Building 5).**
  - (3) **miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.75 units per hour (previously located in Building 7).**
  - (4) **three (3) table saws, one (1) radial arm saw, one (1) belt sander, one (1) shaper, and one (1) side lipper, capacity: 500 pounds of wood per hour (previously located in Building 7). The three (3) table saws and one (1) belt sander are each equipped with a portable dust collector located at the unit for particulate control and exhaust inside the building.**
  - (5) **miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour (previously located in Building 9).**
  - (6) **three (3) table saws, one (1) radial arm saw, one (1) shaper, one (1) pin**

router, one (1) taping machine, and one (1) drill machine, capacity: 1,000 pounds of wood per hour (previously located in Building 9). The three (3) table saws are each equipped with a portable dust collector located at the unit for particulate control and exhaust inside the building.

(7) four (4) chop saws, approved for construction in 2007, capacity: 23.2 pounds of wood per hour, each.

~~(a)~~(b) Buildings 3 and 7 (Slide-out Assembly Assembly and Final Finish):

miscellaneous VOC containing aerosol sprays and handwipe solvents, total capacity: ~~0.25~~ 0.625 units per hour.

~~(b)~~ Building 5 (Final and Interior Finish):

~~miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour.~~

~~(c)~~ Building 7 (Assembly and Final Finish):

~~(1) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.75 units per hour.~~

~~(2) three (3) table saws, one (1) radial arm saw, one (1) belt sander, one (1) shaper, and one (1) side lipper, with particulate emissions controlled by one (1) cyclone, capacity: 500 pounds of wood per hour.~~

~~(d)~~(c) Building 8 (Floor Department):

~~one (1) airless paint spray booth, coating metal, using dry filters as overspray particulate control, one (1) airless counter top assembly adhesive spray booth, coating wood, using dry filters as overspray particulate control, exhausting through one (1) stack, identified as #92, capacity: 0.50~~ 10.0 units per hour (previously located in Building 12).

~~(e)~~ Building 9 (Assembly and Cabinet Construction):

~~(1) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour.~~

~~(2) three (3) table saws, one (1) radial arm saw, one (1) shaper, one (1) pin router, one (1) taping machine, and one (1) drill machine, with particulate emissions controlled by one (1) cyclone and baghouse dust collection system, capacity: 1,000 pounds of wood per hour.~~

~~(f)~~ Building 12 (Counter Top Installation):

~~one (1) airless counter top assembly adhesive spray booth, coating wood, using dry filters as overspray particulate control, exhausting through two (2) stacks, identified as #90 and #91, capacity: 10.0 units per hour.~~

~~(g)~~(d) Building 17A (Steel Frame Painting/Surface Coating):

one (1) high pressure air-assisted paint spray booth, coating metal, using dry filters as overspray particulate control, exhausting through one (1) stack, identified as 17A, capacity: 2.0 metal frames per hour.

~~(h)~~(e) Building 18 (Woodworking):

one (1) woodworking operation, consisting of various woodworking tools, identified as

WW, equipped with two (2) cyclones and three (3) baghouses, exhausted inside the building, capacity: 800 pounds of wood per hour.

**(f)** Building 18A (Surface Coating for Building 18):

three (3) spray booths, coating wood, constructed in 2000, identified as SC1, SC2 and SC3, equipped with a total of six (6) high-volume, low-pressure (HVLP) spray guns, using dry filters for particulate overspray control, exhausted through three (3) stacks, identified as F1, F2 and F3, respectively, capacity: 44.05 wood cabinet doors per hour, each.

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

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) the following natural gas-fired combustion sources with heat input equal to or less than ten (10) million British thermal units per hour (mmBtu/hr):

...

- (3) Enclosed space heaters

**six (6) heaters in Building 1 each rated at 0.48 MMBtu/hr**, two (2) heaters in Building 2 each rated at 0.15 mmBtu/hr, one (1) heater in Building 3 rated at 0.14 mmBtu/hr, two (2) heaters in Building 6 each rated at 0.05 mmBtu/hr, two (2) heaters in Building 7 each rated at 0.3 mmBtu/hr, three (3) heaters in Building 8 each rated at 0.15 mmBtu/hr, four (4) heaters in Building 9 each rated at 0.3 mmBtu/hr, two (2) heaters in Building 9 each rated at 0.15 mmBtu/hr, one (1) heater in Building 9 rated at 0.08 mmBtu/hr, two (2) heaters in Building 9 each rated at 0.13 mmBtu/hr, one (1) heater in Building 11 rated at 0.1 mmBtu/hr, ~~two (2) heaters in Building 12 each rated at 0.25 mmBtu/hr~~, and three (3) heaters in Building 22 each rated at 0.2 mmBtu/hr;

...

- (j) the following woodworking activities with particulate matter emissions equal to or below the insignificant threshold of 5 pounds per hour: [326 IAC 6-3-2]

...

- (2) one (1) chop saw, one (1) radial arm saw, one (1) table saw, one (1) band saw, one (1) belt sander, one (1) "Time-Saver" sander, and two (2) work benches in Building ~~42~~ **1**, equipped with one (1) cyclone dust collection system, capacity: 250 pounds of wood per hour (**previously located in Building 12**).

...

**SECTION D.1 FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-8-4(10)]: Surface Coating and Woodworking**

- (a) Building 1 (Slide-out Assembly, Final and Interior Finish, Floor Department, Assembly and Cabinet Construction)**
- (1) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour (previously located in Building 3).**
- (2) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour (previously located in Building 5).**
- (3) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.75 units per hour (previously located in Building 7).**
- (4) three (3) table saws, one (1) radial arm saw, one (1) belt sander, one (1) shaper, and**

**one (1) side lipper, capacity: 500 pounds of wood per hour (previously located in Building 7). The three (3) table saws and one (1) belt sander are each equipped with a portable dust collector located at the unit for particulate control and exhaust inside the building.**

**(5) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour (previously located in Building 9).**

**(6) three (3) table saws, one (1) radial arm saw, one (1) shaper, one (1) pin router, one (1) taping machine, and one (1) drill machine, capacity: 1,000 pounds of wood per hour (previously located in Building 9). The three (3) table saws are each equipped with a portable dust collector located at the unit for particulate control and exhaust inside the building.**

**(7) four (4) chop saws, approved for construction in 2007, capacity: 23.2 pounds of wood per hour, each.**

~~(a)~~**(b)** Buildings 3 and 7 (~~Slide-out Assembly~~ **Assembly and Final Finish**):

miscellaneous VOC containing aerosol sprays and handwipe solvents, ~~total capacity: 0.25~~ **0.625** units per hour.

~~(b)~~ Building 5 (~~Final and Interior Finish~~):

~~miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour.~~

~~(c)~~ Building 7 (~~Assembly and Final Finish~~):

~~(1) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.75 units per hour.~~

~~(2) three (3) table saws, one (1) radial arm saw, one (1) belt sander, one (1) shaper, and one (1) side lipper, with particulate emissions controlled by one (1) cyclone, capacity: 500 pounds of wood per hour.~~

~~(d)~~**(c)** Building 8 (~~Floor Department~~):

~~one (1) airless paint spray booth, coating metal, using dry filters as overspray particulate control,~~  
**one (1) airless counter top assembly adhesive spray booth, coating wood, using dry filters as overspray particulate control,** exhausting through one (1) stack, identified as #92, capacity: ~~0.50~~ **10.0** units per hour (**previously located in Building 12**).

~~(e)~~ Building 9 (~~Assembly and Cabinet Construction~~):

~~(1) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour.~~

~~(2) three (3) table saws, one (1) radial arm saw, one (1) shaper, one (1) pin router, one (1) taping machine, and one (1) drill machine, with particulate emissions controlled by one (1) cyclone and baghouse dust collection system, capacity: 1,000 pounds of wood per hour.~~

~~(f)~~ Building 12 (~~Counter Top Installation~~):

~~one (1) airless counter top assembly adhesive spray booth, coating wood, using dry filters as overspray particulate control, exhausting through two (2) stacks, identified as #90 and #91, capacity: 10.0 units per hour.~~

~~(g)~~**(d)** Building 17A (~~Steel Frame Painting/Surface Coating~~):

one (1) high pressure air-assisted paint spray booth, coating metal, using dry filters as overspray particulate control, exhausting through one (1) stack, identified as 17A, capacity: 2.0 metal frames per hour.

~~(h)~~(e) Building 18 (Woodworking):

one (1) woodworking operation, consisting of various woodworking tools, identified as WW, equipped with two (2) cyclones and three (3) baghouses, exhausted inside the building, capacity: 800 pounds of wood per hour.

~~(i)~~(f) Building 18A (Surface Coating for Building 18):

three (3) spray booths, coating wood, constructed in 2000, identified as SC1, SC2 and SC3, equipped with a total of six (6) high-volume, low-pressure (HVLV) spray guns, using dry filters for particulate overspray control, exhausted through three (3) stacks, identified as F1, F2 and F3, respectively, capacity: 44.05 wood cabinet doors per hour, each.

(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) [326 IAC 2-8-4] [326 IAC 2-3] [326 IAC 8-6]

The total VOC usage at the surface coating operations in Buildings 1, 3, ~~5~~, 7, 8, ~~9~~, ~~12~~, 17A and 18A, including coatings, adhesives, dilution solvents and clean-up solvents, shall be limited to less than 97.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This usage limit is required to limit the potential to emit of VOC to less than one hundred (100) tons per year. Compliance with this limit renders the requirements of 326 IAC 2-7 (Part 70), 326 IAC 2-3 (Emission Offset) and 326 IAC 8-6 not applicable.

D.1.2 Hazardous Air Pollutants (HAP) [326 IAC 2-8-4] [326 IAC 20] [40 CFR 63]

(a) The worst-case single HAP usage at the surface coating operations in Buildings 1, 3, ~~5~~, 7, 8, ~~9~~, ~~12~~, 17A and 18A, including coatings, adhesives, dilution solvents and clean-up solvents, shall be limited to less than a total of 9.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This usage limit is required to limit the potential to emit of any single HAP to less than ten (10) tons per year.

(b) The total HAPs usage at the surface coating operations in Buildings 1, 3, ~~5~~, 7, 8, ~~9~~, ~~12~~, 17A and 18A, including coatings, adhesives, dilution solvents and clean-up solvents, shall be limited to less than 24.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This usage limit is required to limit the potential to emit of total HAPs to less than twenty-five (25) tons per year.

...

D.1.3 Particulate Matter (PM) [326 IAC 2-2]

The PM emissions from the following woodworking and surface coating operations shall not exceed the hourly rates expressed in the table:

Unit ID	Hourly PM Limit (lbs/hr)
Surface Coating (Building 8)	<del>0.343</del> <b>2.28</b>
<del>Surface Coating (Building 12)</del>	<del>2.28</del>
Surface Coating (Building 17A)	0.451
Surface Coating (Building 18A)	0.073
<del>Woodworking (Building 7)</del>	<del>1.62</del>
<del>Woodworking (Building 9)</del>	<del>2.58</del>
Woodworking (Building 18)	2.22

...

**D.1.4 Particulate Matter Less Than Ten Microns in Diameter (PM<sub>10</sub>) [326 IAC 2-8-4] [326 IAC 2-2]**

Pursuant to 326 IAC 2-8-4, the PM<sub>10</sub> emissions from the following woodworking and surface coating operations shall not exceed the hourly rates expressed in the table:

Unit ID	Hourly PM <sub>10</sub> Limit (lbs/hr)
Surface Coating (Building 8)	<del>0.343</del> <b>2.28</b>
<del>Surface Coating (Building 12)</del>	<del>2.28</del>
Surface Coating (Building 17A)	0.451
Surface Coating (Building 18A)	0.073
<del>Woodworking (Building 7)</del>	<del>1.62</del>
<del>Woodworking (Building 9)</del>	<del>2.58</del>
Woodworking (Building 18)	2.22

...

**D.1.5 Particulate [326 IAC 6-3-2(d)]**

Pursuant to 326 IAC 6-3-2(d), particulate from the surface coating operations in Buildings 8, 12, 17A and 18A shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

**D.1.6 Particulate [326 IAC 6-3-2]**

(a) Pursuant to 326 IAC 6-3-2, the particulate from the woodworking in Building 7 shall not exceed 1.62 pounds per hour when operating at a process weight rate of 0.25 tons per

hour.

- (b) Pursuant to ~~326 IAC 6-3-2~~, the particulate from the woodworking in Building 9 shall not exceed ~~2.58~~ pounds per hour when operating at a process weight rate of 0.5 tons per hour.
- (c) Pursuant to SSM 039-11304-00456, issued on July 7, 2000, and 326 IAC 6-3-2, the particulate from the woodworking in Building 18 shall not exceed 2.22 pounds per hour when operating at a process weight rate of 0.4 tons per hour.

D.1.7 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9, when coating metal in Buildings 1, 3, ~~5~~, 7, 8, ~~9, 12~~, 17A and 18A, the Permittee shall not allow the discharge into the atmosphere VOC in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, as delivered to the applicator.

D.1.8 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9(f), all solvents sprayed from the application equipment in Buildings 1, 3, ~~5~~, 7, 8, ~~9, 12~~, 17A and 18A 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.1.9 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 in Buildings ~~42~~ 8 and 18A shall utilize one of the following application methods:

D.1.12 Particulate Control

...

- (b) In order to comply with Conditions D.1.3, D.1.4 and D.1.5, particulate from the surface coating operations in Buildings 8, ~~42~~, 17A and 18A shall be controlled by a dry particulate filter, and the Permittee shall operate the control devices in accordance with manufacturer's specifications.

...

D.1.14 Visible Emissions Notations

- (a) Daily visible emission notations of the stack exhausts for the woodworking operations in Buildings ~~7, 9~~ 1 and 18 shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

...

D.1.19 Record Keeping Requirements

...

- (c) To document compliance with Condition D.1.14, the Permittee shall maintain records of daily visible emission notations of the stack exhausts for the woodworking operations in Buildings ~~7, 9~~ 1 and 18.

...

**SECTION D.2 FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities**

...

- (j) the following woodworking activities with particulate matter emissions equal to or below the insignificant threshold of 5 pounds per hour: [326 IAC 6-3-2]

...

- (2) one (1) chop saw, one (1) radial arm saw, one (1) table saw, one (1) band saw, one (1) belt sander, one (1) "Time-Saver" sander, and two (2) work benches in Building ~~42 1~~, equipped with one (1) cyclone dust collection system, capacity: 250 pounds of wood per hour **(previously located in Building 12)**.
- ...

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

D.2.2 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2, the particulate from the woodworking in Building 3 shall not exceed 0.551 pounds per hour when operating at a process weight rate of 0.05 tons per hour.
- (b) Pursuant to 326 IAC 6-3-2, the particulate from the woodworking in Building ~~42 1~~ **(previously located in Building 12)** shall not exceed 1.02 pounds per hour when operating at a process weight rate of 0.125 tons per hour.

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

**FESOP Quarterly Report**

Source Name: Carriage, Inc.  
Source Address: 210 Wabash Street, Millersburg, Indiana 46543  
Mailing Address: P.O. Box 246, Millersburg, Indiana 46543-0246  
FESOP No.: F 039-17622-00456  
Facilities: The surface coating operations in Buildings 1, 3, ~~5~~, 7, 8, ~~9, 12~~, 17A and 18A, including coatings, adhesives, dilution solvents and clean-up solvents  
Parameter: Total VOC input  
...

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

**FESOP Quarterly Report**

Source Name: Carriage, Inc.  
Source Address: 210 Wabash Street, Millersburg, Indiana 46543  
Mailing Address: P.O. Box 246, Millersburg, Indiana 46543-0246  
FESOP No.: F 039-17622-00456  
Facilities: The surface coating operations in Buildings 1, 3, ~~5~~, 7, 8, ~~9, 12~~, 17A and 18A, including coatings, adhesives, dilution solvents and clean-up solvents  
Parameter: Worst Case Single HAP input  
...

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

**FESOP Quarterly Report**

Source Name: Carriage, Inc.  
Source Address: 210 Wabash Street, Millersburg, Indiana 46543  
Mailing Address: P.O. Box 246, Millersburg, Indiana 46543-0246  
FESOP No.: F 039-17622-00456  
Facilities: The surface coating operations in Buildings 1, 3, ~~5~~, 7, 8, ~~9, 12~~, 17A and 18A, including

coatings, adhesives, dilution solvents and clean-up solvents  
Parameter: Total HAP input  
...

Upon further review, IDEM, OAQ has made following changes:

1. The title of the authorized individual has been removed from Section A.1 of the permit. This information is maintained by IDEM and does not need to be listed in the permit. The Permittee must notify IDEM if the authorized individual or the contact information for the authorized individual changes. Condition A.1 has been revised as follows to reflect this change:

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

The Permittee owns and operates a stationary recreational vehicle (RV) and Class C motor home manufacturing source.

Authorized individual: ~~Chief Financial Officer~~  
...

2. All references to IDEM, OAQ's mailing address and contact numbers have been revised as follows:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-5674 0178  
Fax: 317-233-5967 6865**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Carriage, Inc.  
Source Address: 210 Wabash Street, Millersburg, Indiana 46543  
Mailing Address: P.O. Box 246, Millersburg, Indiana 46543-0246  
FESOP No.: F 039-17622-00456

**This form consists of 2 pages**

**Page 1 of 2**

- |   |
|---|
| <p><input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none"><li>· The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674 <b>0178</b>, ask for Compliance Section); and</li><li>· The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967 <b>6865</b>), and follow the other requirements of 326 IAC 2-7-16.</li></ul> |
|---|

All other conditions of the permit shall remain unchanged and in effect. Please find attached a copy of the revised permit.

Pursuant to Contract No. A305-5-65, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Stacie Enoch, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7895 to speak directly to Ms Enoch. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027 and ask for Duane Van Laningham or extension 3-6878, or dial (317) 233-6878.

Sincerely,  
Original signed by

Nisha Sizemore  
Permits Branch Chief  
Office of Air Quality

#### Attachments

ERG/SE

cc: File - Elkhart County  
U.S. EPA, Region V  
Elkhart County Health Department  
Northern Regional Office  
Air Compliance Section Inspector Paul Karkiewicz  
Compliance Data Section - Dave Cline  
Administrative and Development  
Technical Support and Modeling - Michele Boner  
Billing, Licensing and Training Section - Dan Stamatkin



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
(317) 232-8603  
(800) 451-6027  
www.in.gov/idem

## FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR QUALITY

**Carriage, Inc.  
210 Wabash Street  
Millersburg, Indiana 46543**

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

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

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

Operation Permit No.: F 039-17622-00456	
Original Signed By: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: December 5, 2005  Expiration Date: December 5, 2010

First Administrative Amendment No.: 039-24501-00456	Affected Pages: 5-7, 23-28, 30-31, 34, 36-38
Original signed by:  Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: April 27, 2007  Expiration Date: December 5, 2010

## TABLE OF CONTENTS

<b>SECTION A</b>	<b>SOURCE SUMMARY</b> .....	5
A.1	General Information [326 IAC 2-8-3(b)]	
A.2	Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]	
A.3	Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]	
A.4	FESOP Applicability [326 IAC 2-8-2]	
A.5	Prior Permits Superseded [326 IAC 2-1.1-9.5]	
<b>SECTION B</b>	<b>GENERAL CONDITIONS</b> .....	9
B.1	Permit No Defense [IC 13]	
B.2	Definitions [326 IAC 2-8-1]	
B.3	Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5]	
B.4	Enforceability [326 IAC 2-8-6]	
B.5	Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]	
B.6	Severability [326 IAC 2-8-4(4)]	
B.7	Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]	
B.8	Duty to Provide Information[326 IAC 2-8-4(5)(E)]	
B.9	Compliance Order Issuance [326 IAC 2-8-5(b)]	
B.10	Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]	
B.11	Annual Compliance Certification [326 IAC 2-8-5(a)(1)]	
B.12	Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]	
B.13	Emergency Provisions [326 IAC 2-8-12]	
B.14	Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]	
B.15	Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]	
B.16	Permit Renewal [326 IAC 2-8-3(h)]	
B.17	Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]	
B.18	Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]	
B.19	Permit Revision Requirement [326 IAC 2-8-11.1]	
B.20	Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC13-14-2-2][IC 13-17-3-2][IC13-30-3-1]	
B.21	Transfer of Ownership or Operational Control [326 IAC 2-8-10] [IC 13-17-3-2]	
B.22	Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]	
B.23	Credible Evidence [326 IAC 2-8-4(3)] [326 IAC 2-8-5] [62 FR 8314] [326 IAC 1-1-6]	
<b>SECTION C</b>	<b>SOURCE OPERATION CONDITIONS</b> .....	17
	<b>Emission Limitations and Standards [326 IAC 2-8-4(1)]</b>	
C.1	Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]	
C.2	Overall Source Limit [326 IAC 2-8]	
C.3	Opacity [326 IAC 5-1]	
C.4	Open Burning [326 IAC 4-1][IC 13-17-9]	
C.5	Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]	
C.6	Fugitive Dust Emissions [326 IAC 6-4]	
C.7	Stack Height [326 IAC 1-7]	
C.8	Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61 Subpart M]	
	<b>Testing Requirements [326 IAC 2-8-4(3)]</b>	
C.9	Performance Testing [326 IAC 3-6]	
	<b>Compliance Requirements [326 IAC 2-1.1-11]</b>	
C.10	Compliance Requirements [326 IAC 2-1.1-11]	
	<b>Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]</b>	
C.11	Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]	
C.12	Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]	

**Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5]**

- C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
- C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]
- C.15 Response to Excursions or Exceedances [326 IAC 2-8-4][326 IAC 2-8-5]
- C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

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

- C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]
- C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

**Stratospheric Ozone Protection**

- C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

**SECTION D.1 FACILITY OPERATION CONDITIONS - Surface Coating and Woodworking..... 23**

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

- D.1.1 Volatile Organic Compounds (VOC) [326 IAC 2-8-4] [326 IAC 2-3] [326 IAC 8-6]
- D.1.2 Hazardous Air Pollutants (HAP) [326 IAC 2-8-4] [326 IAC 20] [40 CFR 63]
- D.1.3 Particulate Matter (PM) [326 IAC 2-2]
- D.1.4 Particulate Matter Less Than Ten Microns in Diameter (PM<sub>10</sub>) [326 IAC 2-8-4] [326 IAC 2-2]
- D.1.5 Particulate [326 IAC 6-3-2(d)]
- D.1.6 Particulate [326 IAC 6-3-2]
- D.1.7 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-2-9]
- D.1.8 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]
- D.1.9 Volatile Organic Compounds (VOC) [326 IAC 8-2-12]
- D.1.10 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.1.11 Volatile Organic Compounds (VOC) [326 IAC 8-1-2][326 IAC 8-1-4]
- D.1.12 Particulate Control

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

- D.1.13 Operator Training Requirements
- D.1.14 Visible Emissions Notations
- D.1.15 Baghouse Inspections
- D.1.16 Broken or Failed Bag Detection
- D.1.17 Cyclone Inspections
- D.1.18 Cyclone Failure Detection

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.1.19 Record Keeping Requirements
- D.1.20 Reporting Requirements

**SECTION D.2 FACILITY OPERATION CONDITIONS – Insignificant Activities ..... 30**

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

- D.2.1 Particulate [326 IAC 6-2-4]
- D.2.2 Particulate [326 IAC 6-3-2]
- D.2.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]
- D.2.4 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

**Compliance Determination Requirements**

- D.2.5 Particulate Control

Certification Form ..... 33  
Emergency Occurrence Form ..... 34  
Quarterly Report Forms ..... 36-38  
Quarterly Deviation and Compliance Monitoring Report ..... 39

## SECTION A

## SOURCE SUMMARY

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

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

---

The Permittee owns and operates a stationary recreational vehicle (RV) and Class C motor home manufacturing source.

Source Address: 210 Wabash Street, Millersburg, Indiana 46543  
Mailing Address: P.O. Box 246, Millersburg, Indiana 46543-0246  
General Source Phone: (574) 642 - 3622  
SIC Code: 3716  
Source Location Status: Elkhart  
Nonattainment for 8-Hour Ozone  
Attainment for all other criteria pollutants  
Source Status: Federally Enforceable State Operating Permit (FESOP)  
Minor Source, under PSD and Nonattainment NSR Rules;  
Minor Source, Section 112 of the Clean Air Act

### Insert Emission Units Revised:

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

---

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

- (a) Building 1 (Slide-out Assembly, Final and Interior Finish, Floor Department, Assembly and Cabinet Construction)
- (1) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour (previously located in Building 3).
  - (2) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour (previously located in Building 5).
  - (3) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.75 units per hour (previously located in Building 7).
  - (4) three (3) table saws, one (1) radial arm saw, one (1) belt sander, one (1) shaper, and one (1) side lipper, capacity: 500 pounds of wood per hour (previously located in Building 7). The three (3) table saws and one (1) belt sander are each equipped with a portable dust collector located at the unit for particulate control and exhaust inside the building.
  - (5) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour (previously located in Building 9).
  - (6) three (3) table saws, one (1) radial arm saw, one (1) shaper, one (1) pin router, one (1) taping machine, and one (1) drill machine, capacity: 1,000 pounds of wood per hour (previously located in Building 9). The three (3) table saws are each equipped with a portable dust collector located at the unit for particulate control and exhaust inside the building.
  - (7) four (4) chop saws, approved for construction in 2007, capacity: 23.2 pounds of wood per hour, each.

- (b) Buildings 3 and 7 (Assembly and Final Finish):  
  
miscellaneous VOC containing aerosol sprays and handwipe solvents, total capacity: 0.625 units per hour.
- (c) Building 8 (Floor Department):  
  
one (1) airless counter top assembly adhesive spray booth, coating wood, using dry filters as overspray particulate control, exhausting through one (1) stack, identified as #92, capacity: 10.0 units per hour (previously located in Building 12).
- (d) Building 17A (Steel Frame Painting/Surface Coating):  
  
one (1) high pressure air-assisted paint spray booth, coating metal, using dry filters as overspray particulate control, exhausting through one (1) stack, identified as 17A, capacity: 2.0 metal frames per hour.
- (e) Building 18 (Woodworking):  
  
one (1) woodworking operation, consisting of various woodworking tools, identified as WW, equipped with two (2) cyclones and three (3) baghouses, exhausted inside the building, capacity: 800 pounds of wood per hour.
- (f) Building 18A (Surface Coating for Building 18):  
  
three (3) spray booths, coating wood, constructed in 2000, identified as SC1, SC2 and SC3, equipped with a total of six (6) high-volume, low-pressure (HVLP) spray guns, using dry filters for particulate overspray control, exhausted through three (3) stacks, identified as F1, F2 and F3, respectively, capacity: 44.05 wood cabinet doors per hour, each.

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

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) the following natural gas-fired combustion sources with heat input equal to or less than ten (10) million British thermal units per hour (mmBtu/hr):
  - (1) Boilers [326 IAC 6-2-4]  
two (2) boilers in Building 5, installed after September 1983, rated at 0.85 and 0.3 mmBtu/hr, and four (4) boilers in Buildings 18 and 18A, installed in 2000, identified as H1 through H4, each rated at 0.15 mmBtu/hr;
  - (2) Water heaters  
one (1) water heater in Building 2 rated at 0.04 mmBtu/hr, one (1) water heater in Building 5 rated at 0.04 mmBtu/hr, one (1) water heater in Building 9 rated at 0.036 mmBtu/hr, and one (1) water heater in Building 11 rated at 0.04 mmBtu/hr;
  - (3) Enclosed space heaters  
six (6) heaters in Building 1 each rated at 0.48 MMBtu/hr, two (2) heaters in Building 2 each rated at 0.15 mmBtu/hr, one (1) heater in Building 3 rated at 0.14 mmBtu/hr, two (2) heaters in Building 6 each rated at 0.05 mmBtu/hr, two (2) heaters in Building 7 each rated at 0.3 mmBtu/hr, three (3) heaters in Building 8 each rated at 0.15 mmBtu/hr, four (4) heaters in Building 9 each rated at 0.3 mmBtu/hr, two (2) heaters in Building 9 each rated at 0.15 mmBtu/hr, one (1) heater in Building 9 rated at 0.08 mmBtu/hr, two (2) heaters in Building 9 each rated at 0.13 mmBtu/hr, one (1) heater in Building 11 rated at 0.1 mmBtu/hr, and three (3) heaters in Building 22 each rated at 0.2 mmBtu/hr;

- (4) Radiant space heaters  
twelve (12) heaters in Building 3 each rated at 0.05 mmBtu/hr, two (2) heaters in Building 4 each rated at 0.05 mmBtu/hr, twelve (12) heaters in Building 5 each rated at 0.05 mmBtu/hr, six (6) heaters in Building 6 each rated at 0.05 mmBtu/hr, fifteen (15) heaters in Building 7 each rated at 0.05 mmBtu/hr, five (5) heaters in Building 9 each rated at 0.1 mmBtu/hr, one (1) heater in Building 10 rated at 0.15 mmBtu/hr, ten (10) heaters in Building 11 each rated at 0.105 mmBtu/hr, and two (2) heaters in Building 17A each rated at 0.10 mmBtu/hr;
- (5) Air make-up units  
one (1) unit in Building 12 rated at 1.0 mmBtu/hr, one (1) unit in Building 17 rated at 1.25 mmBtu/hr, and two (2) units in Building 17A each rated at 1.0 mmBtu/hr;
- (b) vessels storing lubricating oils, hydraulic oils, machining oils and machining fluids;
- (c) degreasing operations that do not exceed 145 gallons per 12 months; [326 IAC 8-3-2] [326 IAC 8-3-5]
- (d) the brazing, cutting, soldering and welding equipment related to manufacturing activities not resulting in the emissions of HAPs; [326 IAC 6-3-2]
- (e) replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment;
- (f) paved and unpaved roads and parking lots with public access;
- (g) purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process;
- (h) blowdown for any of the following: sight glass, boiler, compressors, pumps, and cooling tower;
- (i) on-site fire and emergency response training approved by the department;
- (j) the following woodworking activities with particulate matter emissions equal to or below the insignificant threshold of 5 pounds per hour: [326 IAC 6-3-2]
  - (1) one (1) table saw in Building 3, equipped with one (1) cyclone dust collection system, capacity: 100 pounds of wood per hour;
  - (2) one (1) chop saw, one (1) radial arm saw, one (1) table saw, one (1) band saw, one (1) belt sander, one (1) "Time-Saver" sander, and two (2) work benches in Building 1, equipped with one (1) cyclone dust collection system, capacity: 250 pounds of wood per hour (previously located in Building 12).
- (k) the following welding activities, in Buildings 16 and 17, with particulate matter emissions equal to or below the insignificant threshold of 5 pounds per hour: [326 IAC 6-3-2]
  - (1) five (5) stick welding stations using carbon electrodes with a maximum consumption rate of 15 electrodes per hour;
  - (2) three (3) metal inert Gas (MIG) steel welding stations using carbon AWS A5.18 wire with a maximum consumption rate of 1.0 unit per hour;
  - (3) five (5) MIG aluminum welding stations using type ER 4043 (aluminum) wire with a maximum consumption rate of 1.25 units per hour;
- (l) the following storage tanks with VOC emissions equal to or below insignificant threshold of 15 pounds per day:

- (1) one (1) 4,000 gallon above ground gasoline storage tank;
- (2) one (1) 8,000 gallon above ground diesel storage tank;
- (3) five (5) 300 gallon motor oil storage totes;
- (m) various VOC containing handwipe solvents for repair work in Building 6, at a maximum capacity of 0.10 units per hour and with a potential emissions of below insignificant threshold of 15 pounds per day; and
- (n) one (1) 3/16" metal and one (1) 1/8" aluminum saw, in Building 17, each with a maximum cutting rate of 2,400 inches per minute and with a potential particulate matter emissions of below insignificant threshold of 5 pounds per hour. [326 IAC 6-3-2]

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

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

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

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

## SECTION B

## GENERAL CONDITIONS

### B.1 Permit No Defense [IC 13]

---

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

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

---

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

### B.3 Permit Term [326 IAC 2-8-4(2)][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, modifications, or amendments of this permit do not affect the expiration date.

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

---

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

### B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

---

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

### B.6 Severability [326 IAC 2-8-4(4)]

---

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

### B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

---

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

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

---

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

### B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

---

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

### B.10 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

---

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification,

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

- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

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

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

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(1).

B.12 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.13 Emergency Provisions [326 IAC 2-8-12]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ / Northern Regional Office, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,  
Telephone No.: 317-233-0178 (ask for Compliance Section)  
Facsimile No.: 317-233-6865  
Northern Regional Office: 574-245-4870, Facsimile Number: 574-245-4877

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

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

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;

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

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

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

B.14 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

**B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination**  
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

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

**B.16 Permit Renewal [326 IAC 2-8-3(h)]**

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

Request for renewal shall be submitted to:

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

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
  - (1) A timely renewal application is one that is:
    - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
    - (B) 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.
  - (2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing

permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]  
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.18 Operational Flexibility [326 IAC 2-8-15] [326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d), without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any preconstruction approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.

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

- (b) **Emission Trades [326 IAC 2-8-15(c)]**  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) **Alternative Operating Scenarios [326 IAC 2-8-15(d)]**  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

**B.19 Permit Revision Requirement [326 IAC 2-8-11.1]**

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

**B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC13-30-3-1]**

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

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10] [IC 13-17-3-2]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:
- Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251
- The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.23 Credible Evidence [326 IAC 2-8-4(3)] [326 IAC 2-8-5] [62 FR 8314] [326 IAC 1-1-6]

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

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

(a) Pursuant to 326 IAC 2-8:

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

(b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

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

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

#### C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

**C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]**

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

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

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

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

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

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

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- (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 the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

#### **C.9 Performance Testing [326 IAC 3-6]**

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- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

### **Compliance Requirements [326 IAC 2-1.1-11]**

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

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

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

### **C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]**

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Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

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

### **C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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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.

## **Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

### **C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

---

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on April 29, 1999.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

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

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

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

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- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;

- (2) review of operation and maintenance procedures and records;
- (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

**C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

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

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

**C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]**

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) The first report covered the period commencing on the date of issuance of the original FESOP and ended on the last day of the reporting period. All subsequent reporting periods shall be based on calendar years. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

### **Stratospheric Ozone Protection**

#### **C.19 Compliance with 40 CFR 82 and 326 IAC 22-1**

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Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

**SECTION D.1**

**FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-8-4(10)]: Surface Coating and Woodworking**

- (a) Building 1 (Slide-out Assembly, Final and Interior Finish, Floor Department, Assembly and Cabinet Construction)
  - (1) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour (previously located in Building 3).
  - (2) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour (previously located in Building 5).
  - (3) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.75 units per hour (previously located in Building 7).
  - (4) three (3) table saws, one (1) radial arm saw, one (1) belt sander, one (1) shaper, and one (1) side lipper, capacity: 500 pounds of wood per hour (previously located in Building 7). The three (3) table saws and one (1) belt sander are each equipped with a portable dust collector located at the unit for particulate control and exhaust inside the building.
  - (5) miscellaneous VOC containing aerosol sprays and handwipe solvents, capacity: 0.25 units per hour (previously located in Building 9).
  - (6) three (3) table saws, one (1) radial arm saw, one (1) shaper, one (1) pin router, one (1) taping machine, and one (1) drill machine, capacity: 1,000 pounds of wood per hour (previously located in Building 9). The three (3) table saws are each equipped with a portable dust collector located at the unit for particulate control and exhaust inside the building.
  - (7) four (4) chop saws, approved for construction in 2007, capacity: 23.2 pounds of wood per hour, each.
- (b) Buildings 3 and 7 (Assembly and Final Finish):

miscellaneous VOC containing aerosol sprays and handwipe solvents, total capacity: 0.625 units per hour.
- (c) Building 8 (Floor Department):

one (1) airless counter top assembly adhesive spray booth, coating wood, using dry filters as overspray particulate control, exhausting through one (1) stack, identified as #92, capacity: 10.0 units per hour (previously located in Building 12).
- (d) Building 17A (Steel Frame Painting/Surface Coating):

one (1) high pressure air-assisted paint spray booth, coating metal, using dry filters as overspray particulate control, exhausting through one (1) stack, identified as 17A, capacity: 2.0 metal frames per hour.
- (e) Building 18 (Woodworking):

one (1) woodworking operation, consisting of various woodworking tools, identified as WW, equipped with two (2) cyclones and three (3) baghouses, exhausted inside the building, capacity: 800 pounds of wood per hour.
- (f) Building 18A (Surface Coating for Building 18):

three (3) spray booths, coating wood, constructed in 2000, identified as SC1, SC2 and SC3, equipped with a total of six (6) high-volume, low-pressure (HVLP) spray guns, using dry filters for particulate overspray control, exhausted through three (3) stacks, identified as F1, F2 and F3, respectively, capacity: 44.05 wood cabinet doors per hour, each.

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

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

#### D.1.1 Volatile Organic Compounds (VOC) [326 IAC 2-8-4] [326 IAC 2-3] [326 IAC 8-6]

The total VOC usage at the surface coating operations in Buildings 1, 3, 7, 8, 17A and 18A, including coatings, adhesives, dilution solvents and clean-up solvents, shall be limited to less than 97.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This usage limit is required to limit the potential to emit of VOC to less than one hundred (100) tons per year. Compliance with this limit renders the requirements of 326 IAC 2-7 (Part 70), 326 IAC 2-3 (Emission Offset) and 326 IAC 8-6 not applicable.

#### D.1.2 Hazardous Air Pollutants (HAP) [326 IAC 2-8-4] [326 IAC 20] [40 CFR 63]

- (a) The worst-case single HAP usage at the surface coating operations in Buildings 1, 3, 7, 8, 17A and 18A, including coatings, adhesives, dilution solvents and clean-up solvents, shall be limited to less than a total of 9.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This usage limit is required to limit the potential to emit of any single HAP to less than ten (10) tons per year.
- (b) The total HAPs usage at the surface coating operations in Buildings 1, 3, 7, 8, 17A and 18A, including coatings, adhesives, dilution solvents and clean-up solvents, shall be limited to less than 24.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This usage limit is required to limit the potential to emit of total HAPs to less than twenty-five (25) tons per year.

Compliance with these limits renders the requirements of 326 IAC 2-7 (Part 70), 326 IAC 20 and 40 CFR 63 not applicable.

#### D.1.3 Particulate Matter (PM) [326 IAC 2-2]

The PM emissions from the following woodworking and surface coating operations shall not exceed the hourly rates expressed in the table:

Unit ID	Hourly PM Limit (lbs/hr)
Surface Coating (Building 8)	2.28
Surface Coating (Building 17A)	0.451
Surface Coating (Building 18A)	0.073
Woodworking (Building 18)	2.22

Compliance with the above limitations will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

#### D.1.4 Particulate Matter Less Than Ten Microns in Diameter (PM<sub>10</sub>) [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 2-8-4, the PM<sub>10</sub> emissions from the following woodworking and surface coating operations shall not exceed the hourly rates expressed in the table:

Unit ID	Hourly PM <sub>10</sub> Limit (lbs/hr)
Surface Coating (Building 8)	2.28
Surface Coating (Building 17A)	0.451
Surface Coating (Building 18A)	0.073
Woodworking (Building 18)	2.22

Compliance with the above limitations will render the requirements of 326 IAC 2-7 (Part 70) and 326 IAC 2-2 (PSD) not applicable.

**D.1.5 Particulate [326 IAC 6-3-2(d)]**

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Pursuant to 326 IAC 6-3-2(d), particulate from the surface coating operations in Buildings 8, 17A and 18A shall be controlled by a dry particulate filter, waterwash, or an equivalent control device, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

**D.1.6 Particulate [326 IAC 6-3-2]**

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Pursuant to SSM 039-11304-00456, issued on July 7, 2000, and 326 IAC 6-3-2, the particulate from the woodworking in Building 18 shall not exceed 2.22 pounds per hour when operating at a process weight rate of 0.4 tons per hour.

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:

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

**D.1.7 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-2-9]**

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Pursuant to 326 IAC 8-2-9, when coating metal in Buildings 1, 3, 7, 8, 17A and 18A, the Permittee shall not allow the discharge into the atmosphere VOC in excess of three and five-tenths (3.5) pounds of VOC per gallon of coating, excluding water, as delivered to the applicator.

**D.1.8 Volatile Organic Compound (VOC) Limitations, Clean-up Requirements [326 IAC 8-2-9]**

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Pursuant to 326 IAC 8-2-9(f), all solvents sprayed from the application equipment in Buildings 1, 3, 7, 8, 17A and 18A 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.1.9 Volatile Organic Compounds (VOC) [326 IAC 8-2-12]**

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Pursuant to 326 IAC 8-2-12 (Wood Furniture and Cabinet Coating), the surface coating applied to wood furniture and cabinets in Buildings 8 and 18A 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.1.10 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

**Compliance Determination Requirements**

D.1.11 Volatile Organic Compounds (VOC) [326 IAC 8-1-2][326 IAC 8-1-4]

Compliance with the VOC usage and content limitations contained in Conditions D.1.1 and D.1.7 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.1.12 Particulate Control

- (a) In order to comply with Conditions D.1.3, D.1.4 and D.1.6, the baghouses, cyclones and dry filters for particulate control shall be in operation and control emissions from the woodworking at all times that the facilities are in operation.
- (b) In order to comply with Conditions D.1.3, D.1.4 and D.1.5, particulate from the surface coating operations in Buildings 8, 17A and 18A shall be controlled by a dry particulate filter, and the Permittee shall operate the control devices in accordance with manufacturer's specifications.
- (c) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.13 Operator Training Requirements

- (a) The Permittee shall implement an operator training program.
  - (1) All operators that perform surface coating operations using spray equipment or booth maintenance shall be trained in the proper set-up and operation of the particulate control system. All existing operators shall be trained upon issuance of this permit if training was not completed within the last twelve (12) months. All new operators shall be trained within thirty (30) days of hiring or transfer.
  - (2) Training shall include proper filter alignment, filter inspection and maintenance, and trouble shooting practices. The training program shall be written and retained on site. The training program shall include a description of the methods to be used at the completion of initial and refresher training to demonstrate and document successful completion. Copies of the training program, the list of trained operators and training records shall be maintained on site or available within 1 hour for inspection by IDEM.
  - (3) All operators shall be given refresher training annually.

- (b) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

#### D.1.14 Visible Emissions Notations

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- (a) Daily visible emission notations of the stack exhausts for the woodworking operations in Buildings 1 and 18 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

#### D.1.15 Baghouse Inspections

---

An inspection shall be performed each calendar quarter of all bags controlling the woodworking operations 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 indoors. All defective bags shall be replaced.

#### D.1.16 Broken or Failed Bag Detection

---

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the hot mix batch mixer and the dryer. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

#### D.1.17 Cyclone Inspections

---

An inspection shall be performed each calendar quarter of all cyclones controlling the woodworking operations 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.1.18 Cyclone Failure Detection

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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. 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). Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

## **Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

### **D.1.19 Record Keeping Requirements**

- 
- (a) To document compliance with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC and HAP usage limits established in Conditions D.1.1 and D.1.2. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) The VOC and HAP content of each coating material and solvent used.
  - (2) The amount of coating material and solvent used on monthly basis. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
  - (3) The total VOC and HAP usage for each month.
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC content limit established in Condition D.1.7. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) The VOC content of each coating material and solvent used.
  - (2) The amount of coating material and solvent less water used on monthly basis.
    - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
    - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
  - (3) The cleanup solvent usage for each month; and
  - (4) The total VOC usage for each month.
- (c) To document compliance with Condition D.1.14, the Permittee shall maintain records of daily visible emission notations of the stack exhausts for the woodworking operations in Buildings 1 and 18.
- (d) To document compliance with Condition D.1.15, the Permittee shall maintain records of the results of the inspections required under Condition D.1.15 and the dates the vents are redirected.
- (e) To document compliance with Condition D.1.17, the Permittee shall maintain records of the results of the inspections required under Condition D.1.17 and the dates the vents are redirected.
- (f) To document compliance with Condition D.1.13, the Permittee shall maintain a copy of the operator training program and training records.

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

#### D.1.20 Reporting Requirements

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A quarterly summary of the information to document compliance with Conditions D.1.1 and D.1.2 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).

## SECTION D.2

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities

- (a) the following natural gas-fired combustion sources with heat input equal to or less than ten (10) million British thermal units per hour (mmBtu/hr): two (2) boilers in Building 5, installed after September 1983, rated at 0.85 and 0.3 million British thermal units per hour, and four (4) boilers in Buildings 18 and 18A, installed in 2000, identified as H1 through H4, each rated at 0.15 million British thermal units per hour; [326 IAC 6-2-4]
- (c) degreasing operations that do not exceed 145 gallons per 12 months; [326 IAC 8-3-2] [326 IAC 8-3-5]
- (d) the brazing, cutting, soldering and welding equipment related to manufacturing activities not resulting in the emissions of HAPs; [326 IAC 6-3-2]
- (j) the following woodworking activities with particulate matter emissions equal to or below the insignificant threshold of 5 pounds per hour: [326 IAC 6-3-2]
  - (1) one (1) table saw in Building 3, equipped with one (1) cyclone dust collection system, capacity: 100 pounds of wood per hour;
  - (2) one (1) chop saw, one (1) radial arm saw, one (1) table saw, one (1) band saw, one (1) belt sander, one (1) "Time-Saver" sander, and two (2) work benches in Building 1, equipped with one (1) cyclone dust collection system, capacity: 250 pounds of wood per hour (previously located in Building 12).
- (k) the following welding activities, in Buildings 16 and 17, with particulate matter emissions equal to or below the insignificant threshold of 5 pounds per hour: [326 IAC 6-3-2]
  - (1) five (5) stick welding stations using carbon electrodes with a maximum consumption rate of 15 electrodes per hour;
  - (2) three (3) metal inert Gas (MIG) steel welding stations using carbon AWS A5.18 wire with a maximum consumption rate of 1.0 unit per hour;
  - (3) five (5) MIG aluminum welding stations using type ER 4043 (aluminum) wire with a maximum consumption rate of 1.25 units per hour;
- (n) one (1) 3/16" metal and one (1) 1/8" aluminum saw, in Building 17, each with a maximum cutting rate of 2,400 inches per minute and with a potential particulate matter emissions of below insignificant threshold of 5 pounds per hour. [326 IAC 6-3-2]

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

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

#### D.2.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating: emission limitations for facilities specified in 326 IAC 6-2-1 (d)), PM emissions from all facilities used for indirect heating purposes which were constructed after September 21, 1983, shall in no case exceed 0.6 pounds of particulate matter per million British thermal units heat input.

#### D.2.2 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2, the particulate from the woodworking in Building 3 shall not exceed 0.551 pounds per hour when operating at a process weight rate of 0.05 tons per hour.

- (b) Pursuant to 326 IAC 6-3-2, the particulate from the woodworking in Building 1 (previously located in Building 12) shall not exceed 1.02 pounds per hour when operating at a process weight rate of 0.125 tons per hour.

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:

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

- (c) Pursuant to 326 IAC 6-3-2, the particulate emissions from the welding and metal cutting operations in Buildings 16 and 17 shall each 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.2.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

#### D.2.4 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs existing as of July 1, 1990, located in Clark, Elkhart, Floyd, Lake, Marion, Porter or St. Joseph Counties, the Permittee shall ensure that the following requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
  - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
  - (B) The solvent is agitated; or
  - (C) The solvent is heated.

- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
  - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
  - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
    - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), for cold cleaning facility construction of which commenced after July 1, 1990, the Permittee shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

## Compliance Determination Requirements

### D.2.5 Particulate Control

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In order to comply with Conditions D.2.2 (a) and (b), the baghouses and cyclones for particulate control shall be in operation and control emissions from the woodworking facilities at all times that the woodworking facilities are in operation.

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

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

Source Name: Carriage, Inc.  
Source Address: 210 Wabash Street, Millersburg, Indiana 46543  
Mailing Address: P.O. Box 246, Millersburg, Indiana 46543-0246  
FESOP No.: F 039-17622-00456

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

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

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

Source Name: Carriage, Inc.  
Source Address: 210 Wabash Street, Millersburg, Indiana 46543  
Mailing Address: P.O. Box 246, Millersburg, Indiana 46543-0246  
FESOP No.: F 039-17622-00456

**This form consists of 2 pages**

**Page 1 of 2**

- |   |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none"><li>• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and</li><li>• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16</li></ul> |
|---|

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

**Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification is not required for this report.

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

**FESOP Quarterly Report**

Source Name: Carriage, Inc.  
 Source Address: 210 Wabash Street, Millersburg, Indiana 46543  
 Mailing Address: P.O. Box 246, Millersburg, Indiana 46543-0246  
 FESOP No.: F 039-17622-00456  
 Facilities: The surface coating operations in Buildings 1, 3, 7, 8, 17A and 18A, including coatings, adhesives, dilution solvents and clean-up solvents  
 Parameter: Total VOC input  
 Limit: Less than 97.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

YEAR: \_\_\_\_\_

Month	Total VOC input (tons)	Total VOC input (tons)	Total VOC input (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: \_\_\_\_\_

Attach a signed certification to complete this report.

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

**FESOP Quarterly Report**

Source Name: Carriage, Inc.  
Source Address: 210 Wabash Street, Millersburg, Indiana 46543  
Mailing Address: P.O. Box 246, Millersburg, Indiana 46543-0246  
FESOP No.: F 039-17622-00456  
Facilities: The surface coating operations in Buildings 1, 3, 7, 8, 17A and 18A, including coatings, adhesives, dilution solvents and clean-up solvents  
Parameter: Worst Case Single HAP input  
Limit: Less than a total of 9.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

YEAR: \_\_\_\_\_

Month	Single HAP input (tons)	Single HAP input (tons)	Single HAP input (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: \_\_\_\_\_

Attach a signed certification to complete this report.

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

**FESOP Quarterly Report**

Source Name: Carriage, Inc.  
Source Address: 210 Wabash Street, Millersburg, Indiana 46543  
Mailing Address: P.O. Box 246, Millersburg, Indiana 46543-0246  
FESOP No.: F 039-17622-00456  
Facilities: The surface coating operations in Buildings 1, 3, 7, 8, 17A and 18A, including coatings, adhesives, dilution solvents and clean-up solvents  
Parameter: Total HAP input  
Limit: Less than a total of 24.0 tons per twelve (12) consecutive month period, with compliance determined at the end of each month

YEAR: \_\_\_\_\_

Month	Total HAP input (tons)	Total HAP input (tons)	Total HAP input (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: \_\_\_\_\_

Attach a signed certification to complete this report.

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Carriage, Inc.  
Source Address: 210 Wabash Street, Millersburg, Indiana 46543  
Mailing Address: P.O. Box 246, Millersburg, Indiana 46543-0246  
FESOP No.: F 039-17622-00456

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked <input type="checkbox"/> No deviations occurred this reporting period.</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

A certification is not required for this report.

**Appendix A: Emission Calculations**  
**Emissions From Six (6) Natural Gas-fired Space Heaters**

**Company Name:** Carriage, Inc.  
**Address:** 210 Wabash Street, Millersburg, Indiana 46543  
**FESOP AA:** 039-24501-00456  
**Reviewer:** ERG/SE  
**Date:** April 18, 2007

Total Heat Input Capacity (MMBtu/hr) 2.88
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Potential Throughput (MMscf/yr) 24.7
--

Emission Factor (lbs/MMscf)	Pollutant						
	PM*	PM10*	SO <sub>2</sub>	NO <sub>x</sub> **	VOC	CO	HAPs
Potential to Emit (tons/yr)	0.02	0.09	7.42E-03	1.24	0.07	1.04	0.02

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

\*\*Emission factor for NO<sub>x</sub> (Uncontrolled) = 100 lb/MMscf.

Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (7/98).

All Emission factors are based on normal firing.

**Methodology**

Potential Throughput (MMscf/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMscf/1,020 MMBtu

PTE (tons/yr) = Potential Throughput (MMscf/yr) x Emission Factor (lbs/MMscf) x 1 ton/2,000 lbs

**Appendix A: Emission Calculations  
Emissions From Controlled Woodworking**

**Company Name:** Carriage, Inc.  
**Address:** 210 Wabash Street, Millersburg, Indiana 46543  
**FESOP AA:** 039-24501-00456  
**Reviewer:** ERG/SE  
**Date:** April 18, 2007

Unit	Number of Units	Outlet Grain Loading (gr/acf)	Flow Rate (acfm)	Control Efficiency %	Controlled PM/PM10 Emissions* (lbs/hr)	Controlled PM/PM10 Emissions* (tons/yr)	Uncontrolled PTE PM/PM10* (lbs/hr)	Uncontrolled PTE PM/PM10* (tons/yr)
Table Saws	6	0.001	105	99.0%	5.40E-03	2.37E-02	0.54	2.37
Belt Sander	1	0.001	105	99.0%	9.00E-04	3.94E-03	0.09	0.39
<b>Total</b>					<b>6.30E-03</b>	<b>2.76E-02</b>	<b>0.63</b>	<b>2.76</b>

\*Assume PM emissions = PM10 emissions.

**Methodology**

Controlled PM/PM10 Emissions (lbs/hr) = Outlet Grain Loading (gr/acf) x Flow Rate (acfm) x 60 min/hr x 1 lb/7,000 grains

Controlled PM/PM10 Emissions (tons/yr) = Controlled PM/PM10 Emissions (lbs/hr) x 8,760 hrs/yr x 1 ton/2,000 lbs

Uncontrolled PTE PM/PM10 (lbs/hr) = Flow Rate (acfm) x Outlet Grain Loading (gr/acf) x 60 min/hr x 1 lb/7,000 grains x 1/(1-Control Efficiency %)

Uncontrolled PTE PM/PM10 (tons/yr) = Uncontrolled PTE PM/PM10 (lbs/hr) x 8,760 hrs/yr x 1 ton/2,000 lbs

**Appendix A: Emission Calculations  
Emissions From Uncontrolled Woodworking**

**Company Name:** Carriage, Inc.  
**Address:** 210 Wabash Street, Millersburg, Indiana 46543  
**FESOP AA:** 039-24501-00456  
**Reviewer:** ERG/SE  
**Date:** April 18, 2007

**1. PTE PM/PM10 from Uncontrolled Cutting**

Process	Unit	Number of Units	Material Thickness (in)	Cutting Blade Thickness (in)	Process Cutting Rate (in/hr)	Material Loss (in <sup>3</sup> /hr)	Material Density (lb/in <sup>3</sup> )*	PTE PM/PM10 (lbs/hr)	PTE PM/PM10 (tons/yr)
Cutting	Chop Saws	4	1.50	0.125	7.00	5.25	0.02	0.12	0.53
Cutting	Radial Arm Saw	2	1.50	0.125	7.00	2.63	0.02	0.06	0.27
<b>Total</b>								<b>0.18</b>	<b>0.80</b>

**2. PTE PM/PM10 from Uncontrolled Punching/Notching/Drilling**

Process	Unit	Number of Units	Material Thickness (in)	Drilling Area (in <sup>2</sup> /hole)	Process Drilling Rate (holes/hr)	Material Loss (in <sup>3</sup> /hr)	Material Density (lb/in <sup>3</sup> )*	PTE PM/PM10 (lbs/hr)	PTE PM/PM10 (tons/yr)
Punching/Notching/Drilling	Drilling Machine	1	1.50	0.05	24.0	1.80	0.02	0.04	0.18
Punching/Notching/Drilling	Tapping Machine	1	1.50	0.05	12.0	0.90	0.02	0.02	0.09
<b>Total</b>								<b>0.06</b>	<b>0.27</b>

**3. PTE PM/PM10 from Uncontrolled Shaping/Routing**

Process	Unit	Number of Units	Material Depth Removed (in)	Material Width Removed (in)	Process Cutting Rate (in/hr)	Material Loss (in <sup>3</sup> /hr)	Material Density (lb/in <sup>3</sup> )*	PTE PM/PM10 (lbs/hr)	PTE PM/PM10 (tons/yr)
Shaping/Routing	Shaper	2	0.125	0.25	20.0	1.25	0.02	0.03	0.13
Shaping/Routing	Side Lipper	1	0.125	0.125	16.0	0.25	0.02	5.79E-03	2.53E-02
Shaping/Routing	Pin Router	1	0.125	0.125	24.0	0.38	0.02	8.68E-03	3.80E-02
<b>Total</b>								<b>0.04</b>	<b>0.19</b>

<b>Overall Total PTE PM/PM10 (tons/yr)</b>	<b>1.26</b>
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\*The material density provided by the source for pine is 40.0 lb/ft<sup>3</sup>, which is equivalent to 0.023148 lb/in<sup>3</sup>.  
 Assume the material loss equals PM/PM10 emissions, PM = PM10.

**Methodology**

Cutting Material Loss (in<sup>3</sup>/hr) = Number of Units x Material Thickness (in) x Cutting Blade Thickness (in) x Process Cutting Rate (in/hr)

Punching/Notching/Drilling Material Loss (in<sup>3</sup>/hr) = Number of Units x Material Thickness (in) x Drilling Area (in<sup>2</sup>/hole) x Process Drilling Rate (holes/hr)

Shaping/Routing Material Loss (in<sup>3</sup>/hr) = Number of Units x Material Depth Removed (in) x Material Width Removed (in) x Process Cutting Rate (in/hr)

PTE PM/PM10 (lbs/hr) = Material Loss (in<sup>3</sup>/hr) x Material Density (lb/in<sup>3</sup>)

PTE PM/PM10 (tons/yr) = PTE PM/PM10 (lbs/hr) x 8,760 hrs/yr x 1 ton/2,000 lbs

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

Company Name: Carriage, Inc.  
Address: 210 Wabash Street, Millersburg, Indiana 46543  
FESOP AA: 039-24501-00456  
Reviewer: ERG/SE  
Date: April 18, 2007

Building	Material	Density (lbs/gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Maximum Usage (gal/unit)	Maximum Throughput (units/hr)	Pounds VOC per Gallon of Coating less Water	Pounds VOC per Gallon of Coating	PTE VOC (lbs/hr)	PTE VOC (lbs/day)	PTE VOC (tons/yr)	PTE PM/PM10 (tons/yr)	Transfer Efficiency
B3 & B7	Vinyl Cote	6.61	85.0%	0.00%	85.0%	0.00%	19.7%	0.050	0.625	5.62	5.62	0.18	4.21	0.77	0.07	50%
B3 & B7	Panel Nu	8.17	70.9%	0.00%	70.9%	0.00%	40.0%	0.125	0.625	5.79	5.79	0.45	10.9	1.98	0.41	50%
B3 & B7	3M Silicone Sealant	5.84	95.0%	0.00%	95.0%	0.00%	3.00%	0.050	0.625	5.55	5.55	0.17	4.16	0.76	0.02	50%
B3 & B7	Broma Touchup Paint	7.34	95.4%	0.00%	95.4%	0.00%	3.20%	0.050	0.625	7.00	7.00	0.22	5.25	0.96	0.02	50%
B3 & B7	Toluene	7.25	100%	0.00%	100.0%	0.00%	0.00%	0.005	0.625	7.25	7.25	0.02	0.54	0.10	0.00	100%
B3 & B7	Xylene	7.25	100%	0.00%	100.0%	0.00%	0.00%	0.005	0.625	7.25	7.25	0.02	0.54	0.10	0.00	100%
B3 & B7	LDN	6.22	100%	0.00%	100.0%	0.00%	0.00%	0.005	0.625	6.22	6.22	0.02	0.47	0.09	0.00	100%
B3 & B7	DC12239 Adhesive	9.28	85.0%	85.0%	0.00%	94.6%	5.42%	0.125	0.625	0.00	0.00	0.00	0.00	0.00	0.00	100%
<b>Total</b>											<b>1.09</b>	<b>26.0</b>	<b>4.75</b>	<b>0.52</b>		

**Methodology**

Pounds VOC per gallon of coating less water = Density (lbs/gal) \* Weight % Organics / (1-Volume % Water)

Pounds VOC per Gallon Coating = Density (lbs/gal) \* Weight % Organics

PTE VOC (lbs/hr) = Pounds of VOC per Gallon Coating (lbs/gal) \* Maximum Usage (gal/unit) \* Maximum Throughput (units/hr)

PTE VOC (lbs/day) = PTE VOC (lbs/hr) \* 24 hrs/day

PTE VOC (tons/yr) = PTE VOC (lbs/hr) \* 8,760 hrs/yr \* 1 ton/2,000 lbs

PTE PM/PM10 (tons/yr) = Maximum Usage (gal/unit) \* Maximum Throughput (units/hr) \* Density (lbs/gal) \* (1- Weight % Volatiles) \* (1-Transfer Efficiency %) \* 8,760 hrs/yr \* 1 ton/2,000 lbs

**Appendix A: Emissions Calculations  
HAP Emissions  
From Surface Coating Operations**

Company Name: Carriage, Inc.  
Address: 210 Wabash Street, Millersburg, Indiana 46543  
FESOP AA: 039-24501-00456  
Reviewer: ERG/SE  
Date: April 18, 2007

Building	Material	Density (lbs/gal)	Weight % Cadmium	Weight % Glycol Ethers	Weight % Hexane	Weight % Methanol	Weight % Methylene Chloride	Weight % MIBK	Weight % Toluene	Weight % Xylene	Maximum Usage (gal/unit)	Maximum Throughput (units/hr)	PTE Cadmium (tons/yr)	PTE Glycol Ethers (tons/yr)	PTE Hexane (tons/yr)	PTE Methanol (tons/yr)	PTE Methylene Chloride (tons/yr)	PTE MIBK (tons/yr)	PTE Toluene (tons/yr)	PTE Xylene (tons/yr)
B3 & B7	Vinyl Cote	6.61	1.00%	6.00%	0.00%	0.00%	0.00%	10.0%	2.00%	2.00%	0.050	0.625	0.01	0.05	0.00	0.00	0.00	0.09	0.02	0.02
B3 & B7	Panel Nu	8.17	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.125	0.625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B3 & B7	3M Silicone Sealant	5.84	0.00%	0.00%	9.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.050	0.625	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
B3 & B7	Broma Touchup Paint	7.34	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	8.00%	17.0%	0.050	0.625	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.17
B3 & B7	Toluene	7.25	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%	0.00%	0.005	0.625	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
B3 & B7	Xylene	7.25	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%	0.005	0.625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
B3 & B7	LDN	6.22	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	19.0%	0.00%	0.005	0.625	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
B3 & B7	DC12239 Adhesive	9.28	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.125	0.625	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>													<b>0.01</b>	<b>0.05</b>	<b>0.07</b>	<b>0.00</b>	<b>0.00</b>	<b>0.09</b>	<b>0.21</b>	<b>0.29</b>

<b>Total PTE Combined HAPs</b>	<b>0.73 tons/yr</b>
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**Methodology**

PTE HAP (tons/yr) = Density (lbs/gal) \* Weight % HAP \* Maximum Usage (gal/unit) \* Maximum Throughput (units/hr) \* 8,760 hrs/yr \* 1 ton/2,000 lbs

**Appendix A: Emissions Calculations  
Emission Summary**

Appendix A: Page 6 of 6

**Company Name:** Carriage, Inc.  
**Address:** 210 Wabash Street, Millersburg, Indiana 46543  
**FESOP AA:** 039-24501-00456  
**Reviewer:** ERG/SE  
**Date:** April 18, 2007

**1. Potential to Emit for New Units\***

	PM	PM10	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	HAPs
New Natural Gas Combustion	0.02	0.09	7.42E-03	1.24	0.07	1.04	0.02
Controlled Woodworking	2.76	2.76	--	--	--	--	--
Uncontrolled Woodworking (Including New Chop Saws)	1.26	1.26	--	--	--	--	--
New Surface Coating	0.52	0.52	--	--	4.75	--	0.73
<b>Total for New Units</b>	<b>4.56</b>	<b>4.63</b>	<b>7.42E-03</b>	<b>1.24</b>	<b>4.82</b>	<b>1.04</b>	<b>0.75</b>

\*The existing woodworking operations that are being relocated to Building 1 are being included above with new units because several units will now be uncontrolled and several units will be equipped with new control devices.

**2. Potential to Emit for Units Removed**

	PM	PM10	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	HAPs
Building 8 Surface Coating*	30.1	30.1	--	--	2.14	--	1.59
Building 12 Space Heaters	4.16E-03	0.02	1.31E-03	0.22	0.01	0.18	4.13E-03
Woodworking Units (Buildings 7 and 9)**	144	144	--	--	--	--	--
<b>Total for Units Removed</b>	<b>175</b>	<b>175</b>	<b>1.31E-03</b>	<b>0.22</b>	<b>2.15</b>	<b>0.18</b>	<b>1.59</b>

\*The PTE from Building 8 Surface Coating is being removed because these activities are being replaced by the surface coating activities from Building 12.

\*\*The PTE from Buildings 7 and 9 woodworking is being removed because these units are operating under different control devices and are represented in 1 above.

**3. Unlimited PTE Summary**

	PM	PM10	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	HAPs
Unlimited PTE from FESOP 039-17622-00456	506	507	0.045	7.46	138	6.27	73.0
Unlimited PTE for Units Removed	175	175	1.31E-03	0.22	2.15	0.18	1.59
Unlimited PTE for New Units	4.56	4.63	0.01	1.24	4.82	1.04	0.75
<b>Revised Unlimited PTE*</b>	<b>336</b>	<b>337</b>	<b>0.05</b>	<b>8.48</b>	<b>141</b>	<b>7.12</b>	<b>72.2</b>

\*The revised unlimited PTE of PM10 and VOC are greater than 100 tons/yr.

Therefore, the source is still eligible to operate under the FESOP program if they comply with the limits in the permit.

**4. Revised Limited PTE**

	PM	PM10	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	HAPs
Limited PTE from TSD for FESOP 039-17622-00456	87.1	87.6	0.045	7.46	99.7	6.27	Less than 10 and Less than 25
Building 8 Surface Coating	(1.50)	(1.50)	--	--	(*)	--	(*)
Building 12 Space Heaters	(4.61E-03)	(0.02)	(1.31E-03)	(0.22)	(0.01)	(0.18)	(4.13E-03)
Woodworking Units (Buildings 7 and 9)	(17.6)	(17.6)	--	--	--	--	--
New Natural Gas Combustion	0.02	0.09	7.42E-03	1.24	0.07	1.04	0.02
New Controlled Woodworking	2.76	2.76	--	--	--	--	--
New Uncontrolled Woodworking (Including New Chop Saws)	1.26	1.26	--	--	--	--	--
New Surface Coating	0.52	0.52	--	--	*	--	*
<b>Revised Limited PTE</b>	<b>72.6</b>	<b>73.1</b>	<b>0.05</b>	<b>8.48</b>	<b>99.8</b>	<b>7.12</b>	<b>Less than 10 and Less than 25</b>

\*The VOC and HAP limits in the permit are not being changed. The new surface coating units will comply with the existing limits.