



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant

DATE: November 2, 2011

RE: Vestil Manufacturing Corporation / 151-30922-00035

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

## Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures  
FNPER-AM.dot12/3/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Ms. Carrie Shearer  
Vestil Manufacturing Corporation  
2999 North Wayne Street  
Angola, IN 46703

November 2, 2011

Re: 151-30922-00035  
Second Administrative Amendment to  
F151-25501-00035

Dear Ms. Shearer:

Vestil Manufacturing Corporation was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F151-25501-00035 on June 2, 2008 for a stationary material handling and loading equipment manufacturing operation, located at 2999 North Wayne Street and 351 North Wayne Street, Angola, IN 46703. On September 14, 2011, the Office of Air Quality (OAQ) received an application from the source:

- (a) requesting that the permit be updated to indicate that the two (2) glue application stations have been moved from Vestil Plant 1 (2999 North Wayne Street) to Vestil Plant 3 (351 Pokagon Trail). This change at the source is considered a "minor physical change" as defined in 326 IAC 2-1.1-1(6). Pursuant to 326 IAC 2-1.1-3(h)(2), minor physical changes to a source do not require a permit revision under 326 IAC 2-8-11.1 or an administrative amendment under 326 IAC 2-8-10, if the minor physical change does not increase potential emissions from the source. This change to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(2).
- (b) relating to the replacement of four (4) HVAC units rated at a maximum of 132,000 Btu/hr, each and one (1) office furnace rated at a maximum of 44,000 Btu/hr with in Vestil Plant 1 front offices with two (2) new rooftop furnaces rated at a maximum of 205,500 Btu/hr, each. The new furnaces will have a combine PTE of 0.2 tons of NO<sub>x</sub> and CO per year. The heating of the office area is not part of the process. Therefore, this change to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(13).
- (c) relating to the replacement of two (2) gas-fired heaters, identified as W1 rated at a maximum of 34,000 Btu/hr and W2, rated at a maximum of 440,000 Btu/hr, with two (2) a new gas-fired heaters rated at a maximum of 545,000 Btu/hr, each. The new furnaces will have a combine PTE of 0.5 tons of NO<sub>x</sub> and 0.4 of CO per year. This replacement will not result in the replacement or repair of the entire power wash system process, does not qualify as a reconstruction of the entire power wash system process, and will not result in an increase of actual emissions. Therefore, this change to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(13).
- (d) requesting that the permit be updated to indicate the correct number and MMBtu/hr of existing natural gas furnaces for Vestil Plant 1 located at 2999 North Wayne Street, Angola. This change to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(6), since it is a revision to descriptive information where the revision will not trigger a new applicable requirement or violate a permit term.

Appendix A (calculations) provides the potential to emit (PTE) for the modifications to the source.

Pursuant to the provisions of 326 IAC 2-8-10, the permit is hereby administratively amended as follows with the deleted language as strikeouts and new language **bolded**:

**Vestil Plant 1, 2999 North Wayne Street, Angola**

- (a) \*\*\*
- (b) \*\*\*
- ~~(c) Two (2) glue application stations, with a combined maximum capacity of 0.359 units per hour and a combined maximum glue usage of 0.2 gallons per unit, each utilizing a spray gun application, constructed in 1997, and exhausting into the building.~~
- ~~(d)~~(c) One (1) radial cross-cut woodsaw, identified as FS1, with a maximum throughput rate of 60 pounds of wood per hour, controlled by one (1) baghouse, constructed in 1995, and exhausting into the building.
- ~~(e)~~(d) One (1) radial arm 14" woodsaw, identified as FS2, with a maximum throughput rate of 60 pounds of wood per hour, controlled by one (1) cyclone and baghouse system, constructed in 1995, and exhausting into the building.
- ~~(f)~~(e) One (1) routing woodsaw, identified as FS3, with a maximum throughput rate of 60 pounds of wood per hour, controlled by one (1) cyclone and baghouse system, constructed in 1995, and exhausting into the building.
- ~~(g)~~(f) Fifty-one (51) steel MIG welding stations, each with a maximum wire consumption of 3.5 pounds per hour, utilizing a carbon steel E70S-6 electrode, 36 were constructed in 1995 and 15 in 1998, and exhausting into the building.
- ~~(h)~~(g) Six (6) aluminum MIG welding stations, each with a maximum wire consumption of 2.0 pounds per hour, utilizing an aluminum ER5356 electrode, constructed in 1995, and exhausting into the building.
- ~~(i)~~(h) Forty-one (41) oxyacetylene flame-cutting operations, each with a maximum cutting rate of 11.7 inches per minute for 0.75 inches thick steel, constructed in 1997, and exhausting into the building.

**Vestil Plant 3, 351 Pokagon Trail, Angola**

- (i) **Two (2) glue application stations, with a combined maximum capacity of 0.359 units per hour and a combined maximum glue usage of 0.2 gallons per unit, each utilizing a spray gun application, constructed in 1997 and approved for modification in 2011, and exhausting into the building.**
- (j) Three (3) stick welding stations, identified as Weld Stick, each with a maximum wire consumption of 3.35 pounds per hour, utilizing 7018 electrode, constructed in 2010, and exhausting inside the building.
- (k) One (1) TIG welding stations, identified as Weld TIG, with a maximum wire consumption of 3.35 pounds per hour, utilizing 7018 electrode, constructed in 2010, and exhausting inside the building.

- (l) Two (2) Plasma cutters, identified as Plasma, cutting 0.75 inch steel at a maximum rate of 14.00 inches per hour, constructed in 2010, and exhausting inside the building.

A.4 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:

**Vestil Plant 1, 2999 North Wayne Street, Angola**

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including the following indirect heating units:
  - (1) ~~Nine (9)~~ **Six (6)** natural gas-fired furnaces (identified as T2 through T8 ~~T5, T7 and T8~~ and T14 through T16), each with a maximum heat input rate of 0.4 MMBtu/hr, constructed in 1995, and exhausting through stacks S2 through ~~S8~~ **S5, S7 and S8**, and S14 through S16, respectively.
  - (2) **Three (3) natural gas-fired furnaces (identified as T14 through T16) each with a maximum heat input rate of 0.48 MMBtu/hr, constructed in 1995 exhausting through S14 through S16.**
  - (2)(3) ~~Five (5)~~ **One** natural gas-fired furnaces (identified as C9 through C13), each with a maximum heat input rate of ~~0.454~~ **0.115** MMBtu/hr, constructed in 1995, and exhausting through stacks S9 through S13, respectively.
  - (4) **One natural gas-fired air make-up system, with a maximum heat input of 2.2 MMBtu/hr, constructed in 1995.**
  - (5) **One infrared tube heater, with a maximum heat input of 0.060 MMBtu/hr, constructed in 1995.**
  - (6) **Two (2) rooftop natural gas-fired furnaces (identified as VOR1-up and VOR2-down) each with a maximum heat input rate of 0.02055 MMBtu/hr, approved for construction in 2011 and exhausting outside.**
  - (3) ~~One (1) natural gas-fired heater, identified as W1, with a maximum heat input rate of 0.034 MMBtu/hr, constructed in 1995, and exhausting through stack WH1.~~
  - (4) ~~One (1) natural gas-fired heater, identified as W2, with a maximum heat input rate of 0.44 MMBtu/hr, constructed in 1995, and exhausting through stack WH2.~~
  - (7) **One (1) natural gas-fired heater, identified as W1, with a maximum heat input rate of 0.545 MMBtu/hr, approved for construction in 2011, and exhausting through stack WH1.**
  - (8) **One (1) natural gas-fired heater, identified as W2, with a maximum heat input rate of 0.545 MMBtu/hr, approved for construction in 2011, and exhausting through stack WH2.**

\*\*\*

**SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS**

**Emissions Unit Description [326 IAC 2-8-4(10)]**

**Vestil Plant 1, 2999 North Wayne Street, Angola**

- (a) One (1) spray paint booth, identified as B1, with a maximum capacity of 10 metal curbs per hour and a maximum paint usage of 0.2 gallons per curb, equipped with High Volume Low Pressure (HVLP) spray guns, using dry filters for overspray control, constructed in 1997, and exhausting to stack V1.
- (b) Three (3) spray paint booths, identified as B2, B3, and B4, each with a maximum capacity of 2 steel yard ramps per hour and a maximum paint usage of 4.0 gallons per ramp, equipped with High Volume Low Pressure (HVLP) spray guns, using dry filters for overspray control, constructed in 1995, and exhausting to stacks V2, V3, and V4, respectively.

**Vestil Plant 3, 351 Pokagon Trail, Angola**

- (e)(i) Two (2) glue application stations, with a combined maximum capacity of 0.359 units per hour and a combined maximum glue usage of 0.2 gallons per unit, each utilizing a spray gun application, constructed in 1997 and approved for modification in 2011, and exhausting into the building.

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

**SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS**

**Emissions Unit Description [326 IAC 2-8-4(10)]**

- (d)(c) One (1) radial cross-cut woodsaw, identified as FS1, with a maximum throughput rate of 60 pounds of wood per hour, controlled by one (1) baghouse, constructed in 1995, and exhausting into the building.
- (e)(d) One (1) radial arm 14" woodsaw, identified as FS2, with a maximum throughput rate of 60 pounds of wood per hour, controlled by one (1) cyclone and baghouse system, constructed in 1995, and exhausting into the building.
- (f)(e) One (1) routing woodsaw, identified as FS3, with a maximum throughput rate of 60 pounds of wood per hour, controlled by one (1) cyclone and baghouse system, constructed in 1995, and exhausting into the building.

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

**SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS**

**Emissions Unit Description [326 IAC 2-8-4(10)]:**

**Vestil Plant 1, 2999 North Wayne Street, Angola**

- (g)(f) Fifty-one (51) steel MIG welding stations, each with a maximum wire consumption of 3.5 pounds per hour, utilizing a carbon steel E70S-6 electrode, 36 were constructed in 1995 and 15 in 1998, and exhausting into the building.
- (h)(g) Six (6) aluminum MIG welding stations, each with a maximum wire consumption of 2.0 pounds per hour, utilizing an aluminum ER5356 electrode, constructed in 1995, and exhausting into the building.
- (i)(h) Forty-one (41) oxyacetylene flame-cutting operations, each with a maximum cutting rate of 11.7 inches per minute for 0.75 inches thick steel, constructed in 1997, and exhausting into the building.

**Vestil Plant 3, 351 Pokagon Trail, Angola**

\*\*\*

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

IDEM, OAQ has decided to make additional revisions to the permit as described below in order to update the language to match the most current version of the applicable rule, to eliminate redundancy within the permit, and to provide clarification regarding the requirements of these conditions.

- (a) Section C.2 has been updated to show current greenhouse gases (GHGs) model language.

**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) and **greenhouse gases**, from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
  - (2) \*\*\*
  - (3) \*\*\*
  - (4) The potential to emit **greenhouse gases (GHGs)** from the entire source shall be limited to less than one hundred thousand (100,000) tons of CO2 equivalent emissions (CO2e) per twelve (12) consecutive month period.
- (b) The phrase "of this permit" has been added to the paragraph of the Quarterly Deviation and Compliance Monitoring Report Form to match the underlying rule.
- (c) IDEM has decided to clarify what rule requirements a certification needs to meet. IDEM has decide to remove the last sentence dealing with the need for certification from the forms because the Conditions requiring the forms already addresses this issue.

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

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

Source Name: Vestil Manufacturing Corporation  
Source Address: 2999 North Wayne Street, Angola, Indiana 46703  
**351 Pokagon Trail, Angola 46703**  
Mailing Address: P.O. Box 507, Angola, IN 46703  
FESOP Permit No.: F151-25501-00035

**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  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-0178  
Fax: 317-233-6865**

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

Source Name: Vestil Manufacturing Corporation  
Source Address: 2999 North Wayne Street, Angola, Indiana 46703  
**351 Pokagon Trail, Angola 46703**  
Mailing Address: P.O. Box 507, Angola, IN 46703  
FESOP Permit No.: F151-25501-00035

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- 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
  - 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

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: Vestil Manufacturing Corporation  
Source Address: 2999 North Wayne Street, Angola, Indiana 46703  
**351 Pokagon Trail, Angola 46703**  
Mailing Address: P.O. Box 507, Angola, Indiana 46703  
FESOP No.: F151-25501-00035  
Facility: Four (4) painting booths (B1, B2, B3, and B4) and two (2) glue application stations  
Parameter: Total VOC delivered to the applicators and used for clean-up  
Limit: Less than 98.8 tons per twelve (12) consecutive month period with compliance determined at the end of each month

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

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
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: Vestil Manufacturing Corporation  
 Source Address: 2999 North Wayne Street, Angola, Indiana 46703  
**351 Pokagon Trail, Angola 46703**  
 Mailing Address: P.O. Box 507, Angola, Indiana 46703  
 FESOP No.: F151-25501-00035  
 Facility: Four (4) painting booths (B1, B2, B3, and B4) and two (2) glue application stations  
 Parameter: Total HAPs delivered VOC delivered to the applicators and used for clean-up  
 Limit: Less than 23.5 tons per twelve (12) consecutive month period with compliance determined at the end of each month

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

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.  
 Deviations occurred in this quarter.  
 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: Vestil Manufacturing Corporation  
Source Address: 2999 North Wayne Street, Angola, Indiana 46703  
**351 Pokagon Trail, Angola 46703**  
Mailing Address: P.O. Box 507, Angola, Indiana 46703  
FESOP No.: F151-25501-00035  
Facility: Four (4) painting booths (B1, B2, B3, and B4) and two (2) glue application stations  
Parameter: A single HAP delivered to the applicators and used for clean-up  
Limit: Less than 9.4 tons per twelve (12) consecutive month period with compliance determined at the end of each month

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

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviations occurred in this quarter.

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) RENEWAL  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Vestil Manufacturing Corporation  
Source Address: 2999 North Wayne Street, Angola, Indiana 46703  
351 Pokagon Trail, Angola 46703  
Mailing Address: P.O. Box 507, Angola, IN 46703  
FESOP Permit No.: F151-25501-00035

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

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, 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 "No deviations occurred this reporting period".

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

<b>Permit Requirement (specify permit condition #)</b>	
<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 (specify permit condition #)</b>	
<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 (specify permit condition #)</b>	
<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: \_\_\_\_\_

Attach a signed certification to complete this report.

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Bruce Farrar, of my staff, at 317-234-5401 or 1-800-451-6027, and ask for extension 4-5401.

Sincerely,



Iryn Calilung, Section Chief  
Permits Branch  
Office of Air Quality

Attachments: Appendix A, Updated Permit

IC/bf

cc: File - Steuben County  
Steuben County Health Department  
U.S. EPA, Region V  
Compliance and Enforcement Branch  
Billing, Licensing and Training Section



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

## Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**Vestil Manufacturing Corporation  
2999 North Wayne Street and  
351 Pokagon Trail  
Angola, Indiana 46703**

(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.

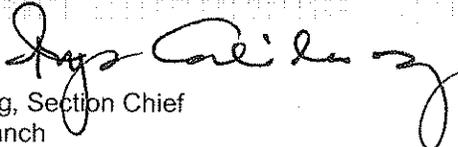
**The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. It shall not be a defense for the Permittee in 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.

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

Operation Permit No.: F151-25501-00035	
Issued by/Original Signed By:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: June 2, 2008  Expiration Date: June 2, 2018

First Administrative Amendment No.: F151 29092 00035, issued on June 17, 2010

Second Administrative Amendment No.: F151-30922-00035	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: November 2, 2011  Expiration Date: June 2, 2018

## TABLE OF CONTENTS

<b>A. SOURCE SUMMARY</b> .....	5
A.1 General Information [326 IAC 2-8-3(b)]	
A.2 Source Definition.	
A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]	
A.4 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(l)]	
A.5 FESOP Applicability [326 IAC 2-8-2	
<b>B. GENERAL CONDITIONS</b> .....	9
B.1 Definitions [326 IAC 2-8-1]	
B.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]	
B.3 Term of Conditions [326 IAC 2-1.1-9.5]	
B.4 Enforceability [326 IAC 2-8-6]	
B.5 Severability [326 IAC 2-8-4(4)]	
B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]	
B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]	
B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]	
B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]	
B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]	
B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]	
B.12 Emergency Provisions [326 IAC 2-8-12]	
B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]	
B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]	
B.15 Reserved	
B.16 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.17 Permit Renewal [326 IAC 2-8-3(h)]	
B.18 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]	
B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]	
B.20 Source Modification Requirement [326 IAC 2-8-11.1]	
B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2] [IC 13-30-3-1]	
B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]	
B.23 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.24 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]	
<b>C. SOURCE OPERATION CONDITIONS</b> .....	18
<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]	
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]

**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)]
- C.12 Reserved
- C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)]  
[326 IAC 2-8-5(1)]

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

- 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

**D.1. EMISSIONS UNIT OPERATION CONDITIONS .....Error! Bookmark not defined.**

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

- D.1.1 FESOP [326 IAC 2-8-4]
- D.1.2 Volatile Organic Compounds [326 IAC 8-2-9]
- D.1.3 Particulate Matter (PM) [40 CFR 52, Subpart P]
- D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.1.5 VOC and HAP Emissions
- D.1.6 VOC and HAP Emissions
- D.1.7 Particulate [326 IAC 6-3-2 (d)]

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

- D.1.8 Monitoring

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

- D.1.9 Record Keeping Requirements
- D.1.10 Reporting Requirements

**SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS ..... 27**

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

- D.2.1 Particulate [326 IAC 6-3-2]
- D.2.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.2.3 Particulate Emissions

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

- D.2.4 Broken or Failed Bag Detection
- D.2.5 Cyclone Failure Detection

**SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS ..... 29**

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

D.3.1 Particulate Matter (PM) [326 IAC 6-3-2]

Certification Form .....	30
Emergency Occurrence Form .....	31
Quarterly Report Form .....	33
Quarterly Deviation and Compliance Monitoring Report Form .....	36

## 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)]

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The Permittee owns and operates a stationary material handling and loading equipment manufacturing operation.

Source Address:	Plant 1, 2999 North Wayne Street, Angola, Indiana 46703 Plant 3, 351 Pokagon Trail, Angola, Indiana 46703.
General Source Phone Number:	260-665-7586
SIC Code:	3499
County Location:	Steuben
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Source Definition

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This stationary material handling and loading equipment manufacturing operation consists of two (2) plants:

- (a) Vestil Manufacturing, Plant 1 is located at 2999 North Wayne Street, Angola, Indiana 46703; and
- (b) Vestil Manufacturing, Plant 3 is located at 351 Pokagon Trail, Angola, Indiana 46703; and

Since the two (2) plants have the same SIC code, they are under common control of the same entity, and they are located within two miles of each other; they will be considered one (1) source, effective from the date of issuance of this Administrative Amendment 151-29091-00035.

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

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

#### **Vestil Plant 1, 2999 North Wayne Street, Angola**

- (a) One (1) spray paint booth, identified as B1, with a maximum capacity of 10 metal curbs per hour and a maximum paint usage of 0.2 gallons per curb, equipped with High Volume Low Pressure (HVLV) spray guns, using dry filters for overspray control, constructed in 1997, and exhausting to stack V1.
- (b) Three (3) spray paint booths, identified as B2, B3, and B4, each with a maximum capacity of 2 steel yard ramps per hour and a maximum paint usage of 4.0 gallons per ramp, equipped with High Volume Low Pressure (HVLV) spray guns, using dry filters for overspray control, constructed in 1995, and exhausting to stacks V2, V3, and V4, respectively.

- (c) One (1) radial cross-cut woodsaw, identified as FS1, with a maximum throughput rate of 60 pounds of wood per hour, controlled by one (1) baghouse, constructed in 1995, and exhausting into the building.
- (d) One (1) radial arm 14" woodsaw, identified as FS2, with a maximum throughput rate of 60 pounds of wood per hour, controlled by one (1) cyclone and baghouse system, constructed in 1995, and exhausting into the building.
- (e) One (1) routing woodsaw, identified as FS3, with a maximum throughput rate of 60 pounds of wood per hour, controlled by one (1) cyclone and baghouse system, constructed in 1995, and exhausting into the building.
- (f) Fifty-one (51) steel MIG welding stations, each with a maximum wire consumption of 3.5 pounds per hour, utilizing a carbon steel E70S-6 electrode, 36 were constructed in 1995 and 15 in 1998, and exhausting into the building.
- (g) Six (6) aluminum MIG welding stations, each with a maximum wire consumption of 2.0 pounds per hour, utilizing an aluminum ER5356 electrode, constructed in 1995, and exhausting into the building.
- (h) Forty-one (41) oxyacetylene flame-cutting operations, each with a maximum cutting rate of 11.7 inches per minute for 0.75 inches thick steel, constructed in 1997, and exhausting into the building.

### **Vestil Plant 3, 351 Pokagon Trail, Angola**

- (i) Two (2) glue application stations, with a combined maximum capacity of 0.359 units per hour and a combined maximum glue usage of 0.2 gallons per unit, each utilizing a spray gun application, constructed in 1997 and approved for modification in 2011, and exhausting into the building.
- (j) Three (3) stick welding stations, identified as Weld Stick, each with a maximum wire consumption of 3.35 pounds per hour, utilizing 7018 electrode, constructed in 2010, and exhausting inside the building.
- (k) One (1) TIG welding stations, identified as Weld TIG, with a maximum wire consumption of 3.35 pounds per hour, utilizing 7018 electrode, constructed in 2010, and exhausting inside the building.
- (l) Two (2) Plasma cutters, identified as Plasma, cutting 0.75 inch steel at a maximum rate of 14.00 inches per hour, constructed in 2010, and exhausting inside the building.

#### A.4 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:

### **Vestil Plant 1, 2999 North Wayne Street, Angola**

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including the following indirect heating units:
  - (1) Six (6) natural gas-fired furnaces (identified as T2 through T5, T7 and T8) each with a maximum heat input rate of 0.4 MMBtu/hr, constructed in 1995, and exhausting through stacks S2 through S5, S7 and S8.
  - (2) Three (3) natural gas-fired furnaces (identified as T14 through T16) each with a maximum heat input rate of 0.48 MMBtu/hr, constructed in 1995 exhausting through S14 through S16.

- (3) One natural gas-fired furnace (identified 13), with a maximum heat input rate of 0.115 MMBtu/hr, constructed in 1995, and exhausting through stacks S13.
  - (4) One natural gas-fired air make-up system, with a maximum heat input of 2.2 MMBtu/hr, constructed in 1995.
  - (5) One infrared tube heater, with a maximum heat input of 0.060 MMBtu/hr, constructed in 1995.
  - (6) Two (2) rooftop natural gas-fired furnaces (identified as VOR1-up and VOR2-down) each with a maximum heat input rate of 0.02055 MMBtu/hr, approved for construction in 2011 and exhausting outside.
  - (7) One (1) natural gas-fired heater, identified as W1, with a maximum heat input rate of 0.545 MMBtu/hr, approved for construction in 2011, and exhausting through stack WH1.
  - (8) One (1) natural gas-fired heater, identified as W2, with a maximum heat input rate of 0.545 MMBtu/hr, approved for construction in 2011, and exhausting through stack WH2.
- (b) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu/hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hour, including four (4) propane-fired fork lift trucks, identified as FT1 through FT4, with a total capacity of 56,000 Btu/hr.
  - (c) Cleaners and solvents having a vapor pressure equal to or less than 2 kPa (15mm Hg or 0.3 psi) measured at 38 degrees C (100°F) or having a vapor pressure equal to or less than 0.7 kPa (5mm Hg or 0.1 psi) measured at 20°C (68°F). The use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
  - (d) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
  - (e) Other emission units, not regulated by a NESHAP, with PM<sub>10</sub> and SO<sub>2</sub> emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs, including one (1) metal working shop, consisting of miscellaneous drills and cutting equipment, and exhausting inside the building.

### **Vestil Plant 3, 351 Pokagon Trail, Angola**

- (f) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour not associated with any production process:

- (1) One (1) furnace natural gas-fired burner, identified as V3-1, rated at 0.5 million British thermal units per hour.
- (2) One (1) furnace natural gas-fired burner, identified as V3-2, rated at 0.08 million British thermal units per hour.
- (3) One (1) furnace natural gas-fired burner, identified as V3-3, rated at 0.06 million British thermal units per hour.

A.5 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) to renew a Federally Enforceable State Operating Permit (FESOP).

## **SECTION B GENERAL CONDITIONS**

### **B.1 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.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]**

- (a) This permit, F151-25501-00035, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

### **B.3 Term of Conditions [326 IAC 2-1.1-9.5]**

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### **B.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 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.6 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.7 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. 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.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]**

- (a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:

- (i) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and
- (ii) the certification is based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent 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.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]**

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- (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. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
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, as IDEM, OAQ may require to determine the compliance status of the source.

**B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]**

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

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- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (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.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The Permittee shall implement the PMPs.

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-8-5 by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5 by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 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 except as provided in 326 IAC 2-8-12.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or 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, 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 Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or  
Telephone Number: 317-233-0178 (ask for Compliance Section)  
Facsimile Number: 317-233-6865  
Northern Regional Office phone: (574) 245-4870; fax: (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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
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 an "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) Operations may continue during an emergency only if the following conditions are met:
  - (1) 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.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

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

- (a) All terms and conditions of permits established prior to F151-25501-00035 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

**B.14** Termination of Right to Operate [326 IAC 2-8-9][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.15** Reserved.

**B.16 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 Federally Enforceable State Operating Permit 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 an "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.17 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
  - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 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, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "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.19 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 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
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)(2), (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.20 Source Modification 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.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]**

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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.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "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.23 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 no later than 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.24 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

### Emission 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 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) and greenhouse gases, from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (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.
- (4) The potential to emit greenhouse gases (GHGs) from the entire source shall be limited to less than one hundred thousand (100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per twelve (12) consecutive month period.

(b) The 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. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) not applicable.

(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 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

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

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

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

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

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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

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

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

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

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-52 IGCN 1003  
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

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

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- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

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

### **C.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, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meet the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

### **C.12 Reserved**

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### **C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

### **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]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) the Permittee shall take reasonable response steps to 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 excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning 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 normal or usual manner of operation.
- (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; and/or
  - (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 record the reasonable responses steps 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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 a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "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, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

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

- (a) The Permittee 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 except that 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 not need to be included in this report. This report shall be submitted no later thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
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) Reserved.
- (e) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

### **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 applicable standards for recycling and emissions reduction.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description [326 IAC 2-8-4(10)]

#### Vestil Plant 1, 2999 North Wayne Street, Angola

- (a) One (1) spray paint booth, identified as B1, with a maximum capacity of 10 metal curbs per hour and a maximum paint usage of 0.2 gallons per curb, equipped with High Volume Low Pressure (HVLP) spray guns, using dry filters for overspray control, constructed in 1997, and exhausting to stack V1.
- (b) Three (3) spray paint booths, identified as B2, B3, and B4, each with a maximum capacity of 2 steel yard ramps per hour and a maximum paint usage of 4.0 gallons per ramp, equipped with High Volume Low Pressure (HVLP) spray guns, using dry filters for overspray control, constructed in 1995, and exhausting to stacks V2, V3, and V4, respectively.

#### Vestil Plant 3, 351 Pokagon Trail, Angola

- (i) Two (2) glue application stations, with a combined maximum capacity of 0.359 units per hour and a combined maximum glue usage of 0.2 gallons per unit, each utilizing a spray gun application, constructed in 1997 and approved for modification in 2011, and exhausting into the building.

(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 VOC and Hazardous Air Pollutants (HAPs) Limits [326 IAC 2-8-4]

- (a) The amount of VOC delivered to all the spray painting booths, the glue application stations, and their associated clean-up activities shall not exceed a total of 98.8 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) The amount of any single HAP delivered to all the spray painting booths and the glue application stations plus the amount of any single HAP used for clean-up shall not exceed 9.4 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (c) The amount of any combination of HAPs delivered to all the spray painting booths and the glue application stations plus the amount of any combination of HAPs used for clean-up shall not exceed 23.5 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Combined with the emissions from the woodworking, welding and flame cutting operations, and the insignificant activities, the VOC emissions from the entire source are limited to less than 100 tons per year each, and the HAP emissions are limited to less than 10 tons per year for any single HAP, and less than 25 tons per year for any combination of HAPs. Therefore, the requirements of 326 IAC 2-7 are not applicable.

#### D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

- (a) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the Permittee shall not allow the discharge into the atmosphere VOC in excess of three and five tenths (3.5) that applies extreme performance coatings pounds of VOC per gallon of coating excluding water as delivered to the applicator.

- (b) Pursuant to 326 IAC 8-2-9(f) (Miscellaneous Metal Coating Operations) all solvents sprayed from the application equipment of paint booths B1, B2, B3 and B4 during clean up or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete. In addition all waste solvent shall be disposed of in such a manner that minimizes evaporation.

**D.1.3 Particulate [326 IAC 6-3-2]**

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Pursuant to 326 IAC 6-3-2(d) (Particulate Emission Limitations for Manufacturing Processes), particulate from spray booths (B1, B2, B3, and B4) shall be controlled by a dry particulate filter and the Permittee shall operate the control device in accordance with manufacturer's specifications

**D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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A Preventive Maintenance Plan is required for this facility and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

**Compliance Determination Requirements**

**D.1.5 VOC and HAP Emissions**

---

Compliance with Conditions D.1.1(a), (b), (c) shall be demonstrated within 30 days of the end of each month based on the total VOC and HAP usage for the most recent twelve (12) month period.

**D.1.6 VOC and HAP Emissions**

---

- (a) Compliance with the VOC usage limitation contained in Condition D.1.1(a) 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.
- (b) Compliance with the HAP usage limitations contained in Conditions D.1.1(b) and (c) shall be determined using formulation data supplied by the coating manufacturer.

**D.1.7 Particulate [326 IAC 6-3-2 (d)]**

---

Pursuant to 326 IAC 6-3-2(d) and in order to comply with D.1.3, the dry filters for particulate control shall be in operation in accordance with manufacturer's specifications and control particulate from the four (4) spray booths (B1, B2, B3 and B4) shall be controlled by a dry particulate control system at all times when these spray booths are in operation.

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

**D.1.8 Monitoring**

---

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the spray painting booth stacks (V1, V2, V3, and V4) while one or more of the booths are in operation. The Response to Excursions or Exceedances Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps shall be considered a deviation from this permit.

- (b) Monthly inspections shall be performed of the coating emissions from the stack and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emission is observed, the Permittee shall take reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee’s obligation with regard to the reasonable response steps required by this condition. Failure to take response steps, shall be considered a deviation from this permit.

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

### **D.1.9 Record Keeping Requirements**

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- (a) To document the compliance status with Conditions D.1.1(a), D.1.1(b), D.1.1(c) and D.1.2, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) 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(a), D.1.1(b), and D.1.1(c), and the VOC content limit contained in Condition D.1.2.
- (1) The VOC and HAP content of each coating material and solvent used.
  - (2) The amount of coating material and solvent less water used on daily basis. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
  - (3) The volume weighted VOC content of the coatings used for each month;
  - (4) The cleanup solvent usage for each month ;
  - (5) The total HAP and VOC usage for each month; and
  - (6) The weight of VOC and HAP usage for each compliance period.
- (b) To document the compliance status with Condition D.1.7, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections.
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

### **D.1.10 Reporting Requirements**

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A quarterly summary of the information to document the compliance status with Conditions D.1.1(a), (b), and (c) 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, no later than (30) days after the end of the quarter period being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description [326 IAC 2-8-4(10)]

- (c) One (1) radial cross-cut woodsaw, identified as FS1, with a maximum throughput rate of 60 pounds of wood per hour, controlled by one (1) baghouse, constructed in 1995, and exhausting into the building.
- (d) One (1) radial arm 14" woodsaw, identified as FS2, with a maximum throughput rate of 60 pounds of wood per hour, controlled by one (1) cyclone and baghouse system, constructed in 1995, and exhausting into the building.
- (e) One (1) routing woodsaw, identified as FS3, with a maximum throughput rate of 60 pounds of wood per hour, controlled by one (1) cyclone and baghouse system, constructed in 1995, and exhausting into the building.

(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 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emissions from each of the woodworking operations shall not exceed 0.39 pounds per hour when operating at a process weight rate of 60 pounds per hour.

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

Interpolation of the data for the process weight rate up to 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.2.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

### Compliance Determination Requirements

#### D.2.3 Particulate Emissions

In order to comply with Condition D.2.1, the baghouses and cyclones used for particulate control shall be in operation at all times when the woodsaws are in operation.

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

#### D.2.4 Broken or Failed Bag Detection

- (a) For single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall 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 requirements of the emergency provisions of this permit (Section B- Emergency Provisions).

- (b) For single compartment baghouses 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 emission unit. 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 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.2.5 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. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

## SECTION D.3

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description [326 IAC 2-8-4(10)]:

#### Vestil Plant 1, 2999 North Wayne Street, Angola

- (f) Fifty-one (51) steel MIG welding stations, each with a maximum wire consumption of 3.5 pounds per hour, utilizing a carbon steel E70S-6 electrode, 36 were constructed in 1995 and 15 in 1998, and exhausting into the building.
- (g) Six (6) aluminum MIG welding stations, each with a maximum wire consumption of 2.0 pounds per hour, utilizing an aluminum ER5356 electrode, constructed in 1995, and exhausting into the building.
- (h) Forty-one (41) oxyacetylene flame-cutting operations, each with a maximum cutting rate of 11.7 inches per minute for 0.75 inches thick steel, constructed in 1997, and exhausting into the building.

#### Vestil Plant 3, 351 Pokagon Trail, Angola

- (j) Three (3) stick welding stations, identified as Weld Stick, each with a maximum wire consumption of 3.35 pounds per hour, utilizing 7018 electrode, constructed in 2010, and exhausting inside the building.
- (k) One (1) TIG welding stations, identified as Weld Tig, with a maximum wire consumption of 3.35 pounds per hour, utilizing 7018 electrode, constructed in 2010, and exhausting inside the building.
- (l) Two (2) Plasma cutters, identified as Plasma, cutting 0.75 inch steel at a maximum rate of 14.00 inches per hour, constructed in 2010, and exhausting inside the building.

(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.3.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e), the allowable particulate emissions from each of the welding and flame-cutting processes shall be limited the pounds per hour limitation calculated with the following equation:

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

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

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

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

### FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL CERTIFICATION

Source Name: Vestil Manufacturing Corporation  
Source Address: 2999 North Wayne Street, Angola, Indiana 46703  
351 Pokagon Trail, Angola 46703  
FESOP Permit No.: F151-25501-00035

**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  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-0178  
Fax: 317-233-6865**

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

Source Name: Vestil Manufacturing Corporation  
Source Address: 2999 North Wayne Street, Angola, Indiana 46703  
351 Pokagon Trail, Angola 46703  
FESOP Permit No.: F151-25501-00035

**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 317-233-0178, 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: \_\_\_\_\_

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

### FESOP Quarterly Report

Source Name: Vestil Manufacturing Corporation  
Source Address: 2999 North Wayne Street, Angola, Indiana 46703  
351 Pokagon Trail, Angola 46703  
FESOP No.: F151-25501-00035  
Facility: Four (4) painting booths (B1, B2, B3, and B4) and two (2) glue application stations  
Parameter: Total VOC delivered to the applicators and used for clean-up  
Limit: Less than 98.8 tons per twelve (12) consecutive month period with compliance determined at the end of each month

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

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.  
 Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_  
Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

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

### FESOP Quarterly Report

Source Name: Vestil Manufacturing Corporation  
Source Address: 2999 North Wayne Street, Angola, Indiana 46703  
351 Pokagon Trail, Angola 46703  
FESOP No.: F151-25501-00035  
Facility: Four (4) painting booths (B1, B2, B3, and B4) and two (2) glue application stations  
Parameter: Total HAPs delivered VOC delivered to the applicators and used for clean-up  
Limit: Less than 23.5 tons per twelve (12) consecutive month period with compliance determined at the end of each month

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

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_  
Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

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

### FESOP Quarterly Report

Source Name: Vestil Manufacturing Corporation  
Source Address: 2999 North Wayne Street, Angola, Indiana 46703  
351 Pokagon Trail, Angola 46703  
FESOP No.: F151-25501-00035  
Facility: Four (4) painting booths (B1, B2, B3, and B4) and two (2) glue application stations  
Parameter: A single HAP delivered to the applicators and used for clean-up  
Limit: Less than 9.4 tons per twelve (12) consecutive month period with compliance determined at the end of each month

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

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.  
 Deviations occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted By: \_\_\_\_\_  
Title/Position: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION  
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Vestil Manufacturing Corporation  
Source Address: 2999 North Wayne Street, Angola, Indiana 46703  
351 Pokagon Trail, Angola 46703  
FESOP Permit No.: F151-25501-00035

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

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, 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 ΔNo 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: \_\_\_\_\_

**Appendix A: Emission Summary**  
**Company Name:** Vestil Manufacturing Corporation  
**Address City IN Zip:** 2999 North Wayne Street, Angola, IN 46703  
**Permit No:** F151-30922-00035  
**Plt ID:** 151-00035  
**Reviewer:** Bruce Farrar  
**Date:** September 14, 2011

Uncontrolled Emissions Before Modification										
Emission Units	PM	PM10	PM2.5	SO2	VOC	CO	CO2e	NOx	combined HAP	Single HAP
Totals	208.52	208.65	208.65	0.01	120.49	1.85	2,649	2.23	92.78	74.83

Controlled Emissions Before Modification										
Emission Units	PM	PM10	PM2.5	SO2	VOC	CO	CO2e	NOx	combined HAP	Single HAP
Totals	68.80	68.93	68.93	0.013	<99	1.85	2,649	2.23	<25	<10

Uncontrolled Emissions for Proposed Modification										
Emission Units	PM	PM10	PM2.5	SO2	VOC	CO	CO2e	NOx	combined HAP	Single HAP
Updated Furnances/Heaters	6.90E-02	2.76E-01	2.76E-01	2.18E-02	2.00E-01	3.05	4,360	3.63	6.86E-02	6.54E-02

Controlled Emissions After Modification										
Emission Units	PM	PM10	PM2.5	SO2	VOC	CO	CO2e	NOx	combined HAP	Single HAP
Paint Booth (B1)*	2.23	2.23	2.23	-	<98.8	-	-	-	<23.5	<9.4
Paint Booth (B2, B3 and B4)*	26.78	26.78	26.78	-		-	-	-		
Glue Stations*	0.25	0.25	0.25	-		-	-	-		
Woodworking Operations	0.24	0.24	0.24	-	-	-	-	-	-	-
Welding and Cutting	39.25	39.25	39.25	-	-	-	-	-	0.18	0.13
NG Combustion Units	6.90E-02	2.76E-01	2.76E-01	2.18E-02	2.00E-01	3.05	4,360	3.63	6.86E-02	6.54E-02
Lift Trucks Insignificant Activities	1.07E-03	1.07E-03	1.07E-03	2.681E-06	1.34E-03	0.01	-	0.04	-	-
<b>Totals</b>	<b>68.83</b>	<b>69.04</b>	<b>69.04</b>	<b>0.022</b>	<b>&lt;99.01</b>	<b>3.06</b>	<b>4,360</b>	<b>2.13</b>	<b>&lt;25</b>	<b>&lt;10</b>

\* FESOP 151-25501-00035, issued June 2, 2008 limits Paint Booths B1, B2, B3, B4 and the Glue Stations to a total of 98.8 tons of VOC per year, 23.5 tons of combined HAPS per year, and 9.4 tons of a Single HAP per year.

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

**Company Name: Vestil Manufacturing Corporation  
Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703  
Permit Number: F151-30922-00035  
Plt ID: 151-00035  
Reviewer: Bruce Farrar  
Date: September 14, 2011**

Heat Input	Capacit	Potential Throughput	Unit Description
MMBtu/hr		MMCF/yr	
2.4		21.0	Furnaces, T2-T5, T7, T8 @ 0.4 MMBtu/hr, each
1.44		12.6	Furnaces, T14-T16 @ 0.48 MMBtu/hr, each
0.115		1.0	Furnace, C13 @ 0.115 MMBtu/hr
2.2		19.3	Air Make-up @ 2.2 MMBtu/hr
0.5		4.4	Furnace, V3-1 @ 0.50 MMBtu/hr
0.08		0.7	Furnace, V3-2 @ 0.008 MMBtu/hr
0.06		0.5	Furnace, V3-3 @ 0.006 MMBtu/hr
1.09		9.5	Furnaces, W1 and W2 @ .545 MMBtu/hr, each
0.411		3.6	Furnaces, VOR1-up, VOR2-down @ .205 MMBtu/hr, each
<b>8.3</b>		<b>72.7</b>	

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100	5.5	84
				**see below		
Potential Emission in tons/yr	6.90E-02	2.76E-01	2.18E-02	3.63	2.00E-01	3.05

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

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

**Methodology**

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

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

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

See page 3 for HAPs emissions calculations.

**Appendix A: Emissions Calculations****Natural Gas Combustion Only****MM BTU/HR <100****HAPs Emissions****Company Name: Vestil Manufacturing Corporation****Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703****Permit Number: F151-30922-00035****Plt ID: 151-00035****Reviewer: Bruce Farrar****Date: September 14, 2011**

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	7.631E-05	4.360E-05	2.725E-03	6.541E-02	1.235E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	1.817E-05	3.997E-05	5.087E-05	1.381E-05	7.631E-05

Methodology is the same as page 2.

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

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

See Page 3 for Greenhouse Gas calculations.

**Appendix A: Emissions Calculations**

**Natural Gas Combustion Only**

**MM BTU/HR <100**

**Greenhouse Gas Emissions**

**Company Name: Vestil Manufacturing Corporation**

**Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703**

**Permit Number: F151-30922-00035**

**Plt ID: 151-00035**

**Reviewer: Bruce Farrar**

**Date: September 14, 2011**

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	4,360	0.0	0.0
Summed Potential Emissions in tons/yr	4,360		
CO2e Total in tons/yr	4,360		

**Methodology**

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission

**Appendix A: Emission Calculations  
VOC and PM/PM10 Emissions  
From the Spray Paint Booth B1**

**Company Name: Vestil Manufacturing Corporation  
Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703  
Permit Number: F151-30922-00035  
Plt ID: 151-00035  
Reviewer: Bruce Farrar  
Date: September 14, 2011**

Material	Density (Lb/Gal)	Weight % Volatile (H <sub>2</sub> O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (unit/hr)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	Potential VOC (lbs/hr)	Potential VOC (lbs/day)	Potential VOC (tons/yr)	*PM/PM10 Potential (lb/hr)	*PM/PM10 Potential (ton/yr)	Transfer Efficiency	PM/PM10 Control Efficiency	Potential to Emit PM/PM10 (lb/hr)	Potential to Emit PM/PM10 (tons/yr)
Yellow Gloss	9.1	60.00%	49.2%	10.8%	10.0	0.2	0.98	1.97	47.17	8.61	2.55	11.16	65%	80%	0.51	2.23
<b>Total</b>								<b>1.97</b>		<b>8.61</b>	<b>2.55</b>	<b>11.16</b>			<b>0.51</b>	<b>2.23</b>

\*Assume all the PM emissions are PM10 emissions.

**METHODOLOGY**

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

Potential VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) \* Max. Throughput (unit/hr) \* Max. Usage (gal/unit)

Potential VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) \* Max. Throughput (unit/hr) \* Max. Usage (gal/unit) \* (24 hr/day)

Potential VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) \* Max. Throughput (unit/hr) \* Max. Usage (gal/unit) \* (8760 hr/yr) \* (1 ton/2000 lbs)

Potential PM/PM10 (lbs/hr) = Max. Throughput (unit/hr) \* Max. Usage (gal/unit) \* Density (lbs/gal) \* (1 - Weight % Volatile) \* (1 - Transfer efficiency)

Potential PM/PM10 (tons/yr) = Max. Throughput (unit/hr) \* Max. Usage (gal/unit) \* Density (lbs/gal) \* (1 - Weight % Volatile) \* (1 - Transfer efficiency) \* (8760 hrs/yr) \* (1 ton/2000 lbs)

Potential to Emit PM/PM10 (lbs/hr) = Potential PM/PM10 (lbs/hr) \* (1 - PM/PM10 Control Efficiency)

Potential to Emit PM/PM10 (tons/yr) = Potential PM/PM10 (lbs/hr) \* (1 - PM/PM10 Control Efficiency) \* (8760 hr/yr) \* (1 ton/2000 lbs)

**Appendix A: Emission Calculations  
HAP Emissions  
From the Spray Paint Booth B1**

**Company Name: Vestil Manufacturing Corporation  
Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703  
Permit Number: F151-30922-00035  
Plt ID: 151-00035  
Reviewer: Bruce Farrar  
Date: September 14, 2011**

Material	Density (Lb/Gal)	Maximum Throughput (unit/hr/booth)	Maximum Usage (gal/unit)	Weight % Dibutyl Phthalate	Dibutyl Phthalate Emissions (tons/yr)	Weight % Glycol Ethers	Glycol Ethers Emissions (tons/yr)
Yellow Gloss	9.1	10.0	0.2	0.83%	0.66	7.30%	5.82
<b>Total</b>					<b>0.66</b>		<b>5.82</b>

**Total HAPs**

**6.48 tons/yr**

**METHODOLOGY**

HAPs emission rate (tons/yr) = Density (lb/gal) x Max. Throughput (unit/hr) \* Max. Usage (gal/unit) x Weight % HAP x 8760 hr/yr x 1 ton/2000 lbs

**Appendix A: Emission Calculations**  
**VOC and PM/PM10 Emissions**  
**From Three (3) Spray Paint Booths (B2, B3, and B4)**

**Company Name: Vestil Manufacturing Corporation**  
**Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703**  
**Permit Number: F151-30922-00035**  
**Plt ID: 151-00035**  
**Reviewer: Bruce Farrar**  
**Date: September 14, 2011**

Material	Density (Lb/Gal)	Weight % Volatile (H <sub>2</sub> O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (unit/hr/booth)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	Potential VOC (lbs/hr)	Potential VOC (lbs/day)	Potential VOC (tons/yr)	*PM/PM10 Potential (lb/hr)	*PM/PM10 Potential (ton/yr)	Transfer Efficiency	PM/PM10 Control Efficiency	Potential to Emit PM/PM10 (lb/hr)	Potential to Emit PM/PM10 (tons/yr)
Yellow Gloss	9.1	60.00%	49.2%	10.8%	2.0	4.0	0.98	7.86	188.70	34.44	10.19	44.64	65%	80%	2.04	8.93
Blue Gloss	9.0	60.02%	48.6%	11.4%	2.0	4.0	1.03	8.22	197.34	36.01	10.07	44.13	65%	80%	2.01	8.83
Brown Gloss	9.1	60.03%	48.6%	11.4%	2.0	4.0	1.04	8.32	199.70	36.45	10.18	44.61	65%	80%	2.04	8.92
<b>**Total for each booth (worst case)</b>								8.32		36.45	10.19	44.64			2.04	8.93
<b>Total for 3 booths</b>										109.34		133.92				26.78

\*Assume all the PM emissions are PM10 emissions.

\*\* Only one type of coating can be applied for each booth at the same time. Therefore, the worst case scenario is using the highest VOC/PM content coating.

#### METHODOLOGY

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

Potential VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) \* Max. Throughput (unit/hr) \* Max. Usage (gal/unit)

Potential VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) \* Max. Throughput (unit/hr) \* Max. Usage (gal/unit) \* (24 hr/day)

Potential VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) \* Max. Throughput (unit/hr) \* Max. Usage (gal/unit) \* (8760 hr/yr) \* (1 ton/2000 lbs)

Potential PM/PM10 (lbs/hr) = Max. Throughput (unit/hr) \* Max. Usage (gal/unit) \* Density (lbs/gal) \* (1 - Weight % Volatile) \* (1 - Transfer efficiency)

Potential PM/PM10 (tons/yr) = Max. Throughput (unit/hr) \* Max. Usage (gal/unit) \* Density (lbs/gal) \* (1 - Weight % Volatile) \* (1 - Transfer efficiency) \* (8760 hrs/yr) \* (1 ton/2000 lbs)

Potential to Emit PM/PM10 (lbs/hr) = Potential PM/PM10 (lbs/hr) \* (1 - PM/PM10 Control Efficiency)

Potential to Emit PM/PM10 (tons/yr) = Potential PM/PM10 (lbs/hr) \* (1 - PM/PM10 Control Efficiency) \* (8760 hr/yr) \* (1 ton/2000 lbs)

**Appendix A: Emission Calculations**  
**HAP Emissions**  
**From Three (3) Spray Paint Booths (B2, B3, and B4)**

**Company Name: Vestil Manufacturing Corporation**  
**Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703**  
**Permit Number: F151-30922-00035**  
**Plt ID: 151-00035**  
**Reviewer: Bruce Farrar**  
**Date: September 14, 2011**

Material	Density (Lb/Gal)	Maximum Throughput (unit/hr/booth)	Maximum Usage (gal/unit)	Weight % Dibutyl Phthalate	Dibutyl Phthalate Emissions (tons/yr)	Weight % Glycol Ethers	Glycol Ethers Emissions (tons/yr)
Yellow Gloss	9.1	2.0	4.0	0.83%	2.65	7.30%	23.28
Blue Gloss	9.0	2.0	4.0	0.89%	<b>2.81</b>	7.91%	<b>24.94</b>
Brown Gloss	9.1	2.0	4.0	0.88%	2.81	7.54%	24.04
<b>*Total for each booth (worst case)</b>					<b>2.81</b>		<b>24.94</b>
<b>Total for 3 booths</b>					<b>8.42</b>		<b>74.83</b>

\* Only one type of coating can be applied for each booth at the same time. Therefore, the worst case scenario is using the highest HAP content coating.

**Total HAPs**

**83.26 tons/yr**

**METHODOLOGY**

HAPs emission rate (tons/yr) = Density (lb/gal) x Max. Throughput (unit/hr) \* Max. Usage (gal/unit) x Weight % HAP x 8760 hr/yr x 1 ton/2000 lbs

**Appendix A: Emission Calculations  
VOC and PM/PM10 Emissions  
From Two(2) Glue Application Stations**

**Company Name: Vestil Manufacturing Corporation  
Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703  
Permit Number: F151-30922-00035  
Pit ID: 151-00035  
Reviewer: Bruce Farrar  
Date: September 14, 2011**

Material	Density (Lb/Gal)	Weight % Volatile (H <sub>2</sub> O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (unit/hr)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	Potential VOC (lbs/hr)	Potential VOC (lbs/day)	Potential VOC (tons/yr)	*PM/PM10 Potential (lb/hr)	*PM/PM10 Potential (ton/yr)	Transfer Efficiency
Flexible Foam Adhesive	10.0	77.00%	0.0%	77.0%	0.359	0.2	7.70	0.55	13.27	2.42	0.06	0.25	65%
<b>Total</b>								<b>0.55</b>		<b>2.42</b>	<b>0.06</b>	<b>0.25</b>	

\*Assume all the PM emissions are PM10 emissions.

#### METHODOLOGY

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

Potential VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) \* Max. Throughput (unit/hr) \* Max. Usage (gal/unit)

Potential VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) \* Max. Throughput (unit/hr) \* Max. Usage (gal/unit) \* (24 hr/day)

Potential VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) \* Max. Throughput (unit/hr) \* Max. Usage (gal/unit) \* (8760 hr/yr) \* (1 ton/2000 lbs)

Potential PM/PM10 (lbs/hr) = Max. Throughput (unit/hr) \* Max. Usage (gal/unit) \* Density (lbs/gal) \* (1- Weight % Volatile) \* (1-Transfer efficiency)

Potential PM/PM10 (tons/yr) = Max. Throughput (unit/hr) \* Max. Usage (gal/unit) \* Density (lbs/gal) \* (1- Weight % Volatile) \* (1-Transfer efficiency) \* (8760 hrs/yr) \* (1 ton/2000 lbs)

**Appendix A: Emission Calculations  
HAP Emissions  
From Two(2) Glue Application Stations**

**Company Name: Vestil Manufacturing Corporation  
Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703  
Permit Number: F151-30922-00035  
Plt ID: 151-00035  
Reviewer: Bruce Farrar  
Date: September 14, 2011**

Material	Density (Lb/Gal)	Maximum Throughput (unit/hr/booth)	Maximum Usage (gal/unit)	Weight % Perchloroethylene	Perchloroethylene Emissions (tons/yr)	Weight % Dichloromethane	Dichloromethane Emissions (tons/yr)	Weight % Toluene	Toluene Emissions (tons/yr)
Flexible Foam Adhesive	10.0	0.359	0.2	15.0%	0.47	65.0%	2.04	10.0%	0.31
<b>Total</b>					<b>0.47</b>		<b>2.04</b>		<b>0.31</b>

**Total HAPs**

**2.83  
tons/yr**

**METHODOLOGY**

HAPs emission rate (tons/yr) = Density (lb/gal) x Max. Throughput (unit/hr) \* Max. Usage (gal/unit) x Weight % HAP x 8760 hr/yr x 1 ton/2000 lbs

**Appendix A: Emission Calculations  
PM/PM10 Emissions  
From Woodworking Operations (FS1, FS2, FS3)**

**Company Name: Vestil Manufacturing Corporation  
Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703  
Permit Number: F151-30922-00035  
Plt ID: 151-00035  
Reviewer: Bruce Farrar  
Date: September 14, 2011**

**Woodworking Process Description:**

Units: One Radial Cross Cut Saw (SF1), One Radial Arm Saw (SF2), and One Routing Saw (SF3)  
 Max. Throughput Rate: 60 pounds of wood per unit  
 PM Control Equipment: baghouses  
 Dust collected: 1.8 lbs/hr/unit  
 Control Efficiency: 99.0%

**1. Potential Uncontrolled Emissions for each unit:**

**Hourly PM/PM10 Emissions** = 1.8 lbs/hr / 99% = **1.82 lbs/hr/unit**  
**Annual PM/PM10 emissions** = 1.82 lbs/hr x 8760 hr/yr x 1/2000 (ton/lb) = **7.96 tons/yr/unit**

**2. Potential to Emit after Control for each unit:**

**Hourly Potential to Emit** = 1.82 lbs/hr x (1 - 99%) = **0.02 lbs/hr/unit**  
**Annual Potential to Emit** = 1.82 lbs/hr x (1 - 99%) x 8760 hr/yr x 1 ton/2000 lbs = **0.08 tons/yr/unit**

**3. Total Emissions from Woodworking Operations:**

**Potential Uncontrolled PM/PM10 Emissions** = 7.96 tons/yr/unit x 3 units = **23.89 tons/yr**  
**Potentail to Emit of PM/PM10** = 0.08 tons/yr/unit x 3 units = **0.24 tons/yr**

Note: This emission calculations for woodworking process is copied from the Technical Support Document (TSD) for FESOP # 151-8993-00035, issued March 25, 98.

**Appendix A: Emission Calculations  
PM and HAP Emissions  
From Welding and Flame Cutting Operations**

**Company Name: Vestil Manufacturing Corporation  
Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703  
Permit Number: F151-30922-00035  
Plt ID: 151-00035  
Reviewer: Bruce Farrar  
Date: September 14, 2011**

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				Total HAPS (lbs/hr)
			PM=PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING											
Metal Inert Gas (MIG)(carbon steel)	51	3.5	0.0241	0.000034		0.00001	4.302	0.006	0	0.001785	0.008
Metal Inert Gas (MIG)(aluminum )	6	2.0	0.0723	0.000034		0.00001	0.868	0.000	0	0.00012	0.001

FLAME CUTTING	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS* (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)				Total HAPS (lbs/hr)
				PM=PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Oxyacetylene	41	0.75	11.7	0.1622	0.0005	0.0001	0.0003	3.501	0.011	2.2E-03	0.006	0.019

EMISSION TOTALS	PM = PM10	Mn	Ni	Cr	Total HAPS
Potential Emissions (lbs/hr)	8.67	0.017	0.002	0.008	0.03
Potential Emissions (lbs/day)	208.10	0.414	0.052	0.201	0.67
<b>Potential Emissions (tons/year)</b>	<b>37.98</b>	<b>0.076</b>	<b>0.009</b>	<b>0.037</b>	<b>0.12</b>

**METHODOLOGY**

Welding emissions (lb/hr) = (# of stations) x (max. lbs of electrode used/hr/station) x (emission factor, lb. pollutant/lb. of electrode used)  
 Cutting emissions (lb/hr) = (# of stations) x (max. metal thickness, in.) x (max. cutting rate, in./min.) x (60 min./hr.) x (emission factor, lb. pollutant/1,000 in. cut, 1" thick)  
 Plasma cutting emissions (lb/hr) = (# of stations) x (max. cutting rate, in./min.) x (60 min./hr.) x (emission factor, lb. pollutant/1,000 in. cut, 8 mm thick)  
 Emissions (lbs/day) = emissions (lbs/hr) x 24 hrs/day  
 Emissions (tons/yr) = emissions (lb/hr) x 8,760 hrs/year x 1 ton/2,000 lbs.

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

**Company Name: Vestil Manufacturing Corporation**  
**Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703**  
**Permit Number: F151-30922-00035**  
**Plt ID: 151-00035**  
**Reviewer: Bruce Farrar**  
**Date: September 14, 2011**

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)		EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING												
Stick Welding (7018)	3	3.35		0.0211	0.0009			0.212	0.009	0.000	0	0.009
Tungsten Inert Gas (TIG)(carbon steel)	1	3.5		0.0211	0.0009			0.074	0.003	0.000	0	0.003
FLAME CUTTING	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Plasma**	2	0.75	14	0.0039				0.005	0.000	0.000	0.000	0.000
<b>EMISSION TOTALS</b>												
Potential Emissions lbs/hr								0.29	0.01			0.01
Potential Emissions lbs/day								6.98				0.29
Potential Emissions tons/year								1.27	0.1			0.05

**METHODOLOGY**

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

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

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

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

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

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

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

**Appendix A: Emission Calculations**

**From Four (4) Propane Fired Fork Lift Trucks (FT1-FT4) (Insignificant)**

**Company Name:** Vestil Manufacturing Corporation  
**Address City IN Zip:** 2999 North Wayne Street, Angola, IN 46703  
**Permit Number:** F151-30922-00035  
**Plt ID:** 151-00035  
**Reviewer:** Bruce Farrar  
**Date:** September 14, 2011

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	Sulfur Content (gr/100 ft <sup>3</sup> )
0.056 (total for 2 trucks)	5.4	0.01

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
	0.4	0.4	0.001 (0.10S)	14	0.5	1.9
<b>Potential Emission in tons/yr</b>	<b>1.1E-03</b>	<b>1.1E-03</b>	<b>2.7E-06</b>	<b>0.04</b>	<b>1.3E-03</b>	<b>0.01</b>

\*PM and PM10 emission factors are condensable and filterable PM10 combined.

**Methodology**

1 gallon of propane has a heating value of 91,500 Btu.

All Emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF - 1,000,000 Cubic Feet of Gas

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.0915 MMBtu

Emission Factors from AP-42, Chapter 1.5-1, Table 1.5-1, SCC #1-03-010-02.(AP-42 Supplement B 10/96)

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

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

**Company Name: Vestil Manufacturing Corporation  
Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703  
Permit Number: F151-30922-00035  
Plt ID: 151-00035  
Reviewer: Bruce Farrar  
Date: September 14, 2011**

Heat Input Capacit Potential Throughput		Unit Description
MMBtu/hr	MMCF/yr	
0.5	4.4	Furnace, V3-1 @ 0.50 MMBtu/hr
0.08	0.7	Furnace, V3-2 @ 0.008 MMBtu/hr
0.06	0.5	Furnace, V3-3 @ 0.006 MMBtu/hr
3.6	31.5	Furnaces: T-2 to T-8, T-14 to T-16 @ 0.40 MMBtu/hr, each
0.77	6.7	Furnaces C9 to C13 @ 0.154 MMBtu/hr, each
5.0	43.9	

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100	5.5	84
				**see below		
Potential Emission in tons/yr	4.17E-02	1.67E-01	1.32E-02	2.2	1.21E-01	1.8

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

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

**Methodology**

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

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

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

See page 16 for HAPs emissions calculations.

**Appendix A: Emissions Calculations**

**Natural Gas Combustion Only**

**MM BTU/HR <100**

**HAPs Emissions**

**Company Name: Vestil Manufacturing Corporation**

**Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703**

**Permit Number: F151-30922-00035**

**Plt ID: 151-00035**

**Reviewer: Bruce Farrar**

**Date: September 14, 2011**

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	4.608E-05	2.633E-05	1.646E-03	3.950E-02	7.461E-05

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	1.097E-05	2.414E-05	3.072E-05	8.339E-06	4.608E-05

Methodology is the same as page 15.

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

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

See Page 17 for Greenhouse Gas calculations.

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

**Company Name: Vestil Manufacturing Corporation  
 Address City IN Zip: 2999 North Wayne Street, Angola, IN 46703  
 Permit Number: F151-30922-00035  
 Plt ID: 151-00035  
 Reviewer: Bruce Farrar  
 Date: September 14, 2011**

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	2,633	5.E-02	5.E-02
Summed Potential Emissions in tons/yr	2,633		
CO2e Total in tons/yr	2,649		

**Methodology**

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.  
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.  
 Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.  
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton  
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

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

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

**TO:** Carrie Shearer  
Vestil Manufacturing Corporation  
PO Box 507  
Angola, IN 46703

**DATE:** November 2, 2011

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

**SUBJECT:** Final Decision  
Administrative Amendment  
151-30922-00035

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

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

A copy of the final decision and supporting materials has also been sent via standard mail to:  
Ralph Trine - President  
Teri Schenk – Environmental Solutions, LLC  
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07

# Mail Code 61-53

IDEM Staff	GHOTOPP 11/2/2011 Vestil Manufacturing Corporation 151-30922-00035 Final		<b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

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1		Carrie Shearer Vestil Manufacturing Corporation PO Box 507 Angola IN 46703 (Source CAATS) via confirmed delivery										
2		Ralph Trine President Vestil Manufacturing Corporation PO Box 507 Angola IN 46703 (RO CAATS)										
3		Steuben County Board of Commissioners 317 S Wayne Suite 2H Angola IN 46703 (Local Official)										
4		Steuben County Health Department 317 S. Wayne St, Community Center Suite 3-A Angola IN 46703-1938 (Health Department)										
5		Mr. Steve Christman NISWMD 2320 W 800 S, P.O. Box 370 Ashley IN 46705 (Affected Party)										
6		Angola City Council and Mayors Office 210 N. Public Square Angola IN 46703 (Local Official)										
7		Mr. Diane Hanson 490 E 300 N Angola IN 46703 (Affected Party)										
8		Ms. Teri Schenk Environmental Solutions, LLC PO Box 349 Elkhart IN 46517 (Consultant)										
9		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)										
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