



*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant  
DATE: January 4, 2005  
RE: Ford Meter Box Company / 169-22003-00003  
FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision – Approval

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

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures  
FNPER-AM.dot 1/10/05



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

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January 4, 2006

Mr. John Flesher  
Ford Meter Box Company, Inc.  
5701 Frontier Road  
Oconomowoc, WI 53066

Re: 169-22003-00003  
Sixth Administrative Amendment to  
FESOP 169-5469-00003

Dear Mr. Flesher:

Ford Meter Box Company, Inc. was issued a permit on December 13, 1996 for a stationary brass captive foundry. A letter requesting the following changes was received on November 8, 2005. Pursuant to the provisions of 326 IAC 2-8-10 the permit is hereby administratively amended as follows (added language in bold, deletions in strikeout):

- (1) The addition of a CMI Core Machine, Model HS-22-RA used for core molding. Based on the information provided by Ford Meter Box Company, Inc., the potential volatile organic compounds (VOC), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO) and particulate matter (PM<sub>10</sub>) emission from the proposed unit are determined to be 2.00, 0.16, 0.14, 0.01 tons per year, respectively. The proposed molding machine has negligible PM<sub>10</sub> emissions because the raw material used by the molding machine for mold making is a thick sticky mixture of sand and liquid resin and behaves like molasses. The emissions from the proposed unit are below the exemption levels specified in 326 IAC 2-1-1. Therefore, pursuant to 326 IAC 2-7-11(21)(A), the proposed core molding machine can be considered an insignificant activity. The core molding machine is being added to Section A.3 (Insignificant Activities) as follows:
  - (jj) ~~two (2)~~ **three (3)** natural gas fired core molding machines, each with a maximum heating capacity of 0.317 MMBtu/hr and **each with** a maximum shell sand throughput of 395 pounds per hour.
- (2) Ford Meter Box Company, Inc. is also removing a Redford Carver Model HP42-G core machine.

Limited potential to emit for any regulated pollutants at this source, after the addition of the proposed emission unit, shall remain at less than 100 tons per year.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

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 Linda Quigley, at (973) 575-2555, ext. 3284 or dial (800) 451-6027, and ask for extension 3-6878.

Sincerely,

Origin signed by

Paul Dubenetzky,  
Acting Assistant Commissioner  
Office of Air Quality

Attachments

LQ/EVP

cc: File – Wabash County  
U.S. EPA, Region V  
Wabash County Health Department  
Air Compliance Section Inspector – Ryan Hillman  
Compliance Data Section  
Administrative and Development  
Technical Support and Modeling



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

**The Ford Meter Box Company, Inc.  
775 Manchester Avenue  
Wabash, Indiana 46992**

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 and contains the conditions and provisions specified in 326 IAC 2-8 and 40 CFR Part 70.6 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments) and IC 13-15 and IC 13-17 (prior to July 1, 1996, IC 13-1-1-4 and IC 13-7-10).

Operation Permit No.: F169-5469-00003	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: December 13, 1996

First Administrative Amendment No.: 169-10615	Issuance Date: March 8, 1999
Second Administrative Amendment No.: 169-11779	Issuance Date: February 10, 2000
Third Administrative Amendment No.: 169-13843	Issuance Date: April 6, 2001
Fourth Administrative Amendment No.: 169-17243	Issuance Date: April 17, 2003
First Significant Permit Revision No.: 169-18446	Issuance Date: July 19, 2004
Fifth Administrative Amendment No.: 169-20252	Issuance Date: December 10, 2004

Sixth Administrative Amendment No.: 169-22003	Page affected: 6
Issued by: Origin signed by Paul Dubenetzky, Acting Assistant Commissioner Office of Air Quality	Issuance Date: January 4, 2006

- (i) storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons;
- (j) vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;
- (k) refractory storage not requiring air pollution control equipment;
- (l) application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings;
- (m) machining where an aqueous cutting coolant continuously floods the machining interface;
- (n) degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6;
- (o) cleaners and solvents with low vapor pressure and with a combined usage of less than 145 gallons per 12 months;
- (p) brazing equipment, cutting torch, soldering equipment and welding equipment not resulting in HAP emissions;
- (q) close loop heating and cooling systems;
- (r) cutting 200.00 linear feet or less of one inch (1") plate or equivalent;
- (s) using 80 tons or less of welding consumables;
- (t) operations using aqueous solutions with less than 1 percent of VOCs excluding HAPs;
- (u) water based adhesives that are less than or equal to 5 percent VOCs by volume excluding HAPs;
- (v) quenching operations used with heat treating processes;
- (w) replacement or repair of electrostatic precipitators, bags in baghouse and filters in other air filtration equipment;
- (x) heat exchanger cleaning and repair;
- (y) paved and unpaved roads and parking lots with public excess;
- (z) purging of gas lines and vessels not associated with production process;
- (aa) equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup;
- (bb) blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower;
- (cc) stationary fire pumps;
- (dd) grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual standard cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking operations;
- (ee) mold release agent using low volatile products;
- (ff) a laboratory as defined in 326 IAC 2-7-1(20)(C);
- (gg) other activities with volatile organic compound (VOC) emissions equal to or less than 15 pounds per day, and activities with particulate matter (PM) emissions equal to or less than 25 pounds per day;
- (hh) one (1) 19,810 gallon No.2 fuel oil underground storage tank;
- (ii) one (1) parts washer with no VOC emissions exhausting through stack/vent "BD"; and
- (jj) three (3) natural gas fired core molding machines, each with a maximum heating capacity of 0.3712 MMBtu/hr and each with a maximum shell sand throughput of 395 pounds per hour.

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

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

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

**Company Name:** Ford Meter Box Company, Inc.  
**Address City IN Zip:** 775 Manchester Avenue, Wabash, Indiana 46992  
**Permit Number:** AA169-22003-00003  
**Pit ID:** 169-00003  
**Reviewer:** Linda Quigley/EVP  
**Date:** December 2, 2005

Heat Input Capacity  
MMBtu/hr

Potential Throughput  
MMCF/yr

0.371

3.3

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0	5.5	84.0
				**see below		
Potential Emission in tons/yr	0.003	0.012	0.001	0.163	0.009	0.137

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

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

**Methodology**

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

See next page for HAPs emissions calculations.

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

**HAPs Emissions**

**Company Name:** Ford Meter Box Company, Inc.  
**Address City IN Zip:** 775 Manchester Avenue, Wabash, Indiana 46992  
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HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	3.414E-06	1.951E-06	1.219E-04	2.927E-03	5.528E-06

HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	8.129E-07	1.788E-06	2.276E-06	6.178E-07	3.414E-06

Methodology is the same as previous page.

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

**Appendix A: Emissions Calculations  
Core Molding Machine**

Page 3 of 3 App A

**Company Name: Ford Meter Box Company, Inc.**  
**Address City IN Zip: 775 Manchester Avenue, Wabash, Indiana 46992**  
**Permit Number: AA169-22003-00003**  
**Plt ID: 169-00003**  
**Reviewer: Linda Quigley/EVP**  
**Date: December 2, 2005**

**Core Molding Machine**

The maximum throughput capacity of sand mixture is 395 lbs/hr.

The sand mixture contains 2% resin and 0.3% catalyst, each of which contains 5% formaldehyde (a VOC).

It is assumed that 100% of the formaldehyde will be released as gas.

PTE =  $[(2\% + 0.3\%) * 395 \text{ (lb/hr)}] * 5\% \text{ concentration} * 100\% \text{ released} * 8760 \text{ hrs/yr} / 2000 \text{ lbs/ton}$

PTE = 1.99 tons per year formaldehyde