



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
MC 61-53  
(317) 232-8603  
(800) 451-6027  
www.IN.gov/idem

TO: Interested Parties / Applicant  
DATE: March 18, 2008  
RE: Cox Cabinet, Inc. / 033-26159-00048  
FROM: Matthew Stuckey, Deputy 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

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels, Jr.*

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100 North Senate Avenue  
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Toll Free (800) 451-6027  
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March 18, 2008

David Cox  
Cox Cabinet, Inc.  
1110 Fuller Drive  
Garrett, IN 46738

Re: Registration Notice-Only Change  
No. 033-26159-00048

Dear Mr. Cox:

Cox Cabinet, Inc. was issued a Registration No. R033-25442-00048 on January 10, 2008 for a stationary wood cabinet manufacturing plant located at 1110 Fuller Drive, Garrett, Indiana 46738. On February 25, 2008, the Office of Air Quality (OAQ) received an application from Cox Cabinet, Inc. requesting the following changes:

1. The construction and operation of two (2) touchup paint booths, identified as Booth A and Booth B, using no more than a total of ten (10) gallons of coating per day for touch-up and repair operations; and
2. The addition of one (1) additional UV coating line, identified as Surface Coating Line #3, which is the same as the two surface coating lines previously included in the Registration No. 033-25442-00048, issued on January 10, 2008.

The addition of these units to the registration is considered a notice-only change, since the potential emissions of regulated criteria pollutants and hazardous air pollutants are less than the ranges specified in 326 IAC 2-5.5-6(d)(10) and 326 IAC 2-5.5-6(d)(12). The uncontrolled/unlimited potential to emit of the entire source will continue to be within the threshold levels specified in 326 IAC 2-5.5-1(b)(1). No new state rules are applicable to this source. There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) or National Emission standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 20 and 40 CFR Part 61, 63) included in this notice-only change.

Pursuant to 326 IAC 2-5.5-6, the registration is hereby revised as follows, with deleted language as ~~strikeouts~~ and new language **bolded**:

\* \* \*

- (d) Two (2) surface coating lines, **identified as Surface Coating Line #1 and Surface Coating Line #2**, constructed in 2001, using a vacuum coater while applying UV-curable coatings and using air atomized spray or wipe coating application while applying non-UV-curable coatings, with a maximum non-UV-curable coating usage of 0.4 gal/hr, controlled by dry filters.
- (e) **One (1) surface coating line, identified as Surface Coating Line #3, to be constructed in 2008, using a vacuum coater while applying UV-curable coatings and using air atomized spray or wipe coating application while applying non-UV-curable coatings, with a maximum non-UV-curable coating usage of 0.4 gal/hr, controlled by dry filters.**

- (f) **Two (2) touchup spray booths, identified as Booth A and Booth B, utilizing HVLP spray application, approved for construction in 2008 and venting to stack 002 and stack 004, respectively.**

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

\* \* \*

- (b) Pursuant to 326 IAC 6-3-2(d), particulate from the **three (3) finishing lines, identified as Surface Coating Lines #1 through #3, and the two (2) touchup booths, identified as Booth A and Booth B** shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:

- (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

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

~~The surface coating lines were constructed after July 1, 1990 and the potential to emit VOC from each finishing line is greater than 15 pounds per day.~~ Pursuant to 326 IAC 8-2-12, the surface coating applied to wood furniture and cabinets shall utilize one of the following application methods, :

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

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

The source shall continue to operate according to 326 IAC 2-5.5. Please find enclosed the revised registration.

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 Summer Keown, at (800) 451-6027, press 0 and ask for Summer Keown or extension 2-8427, or dial (317) 232-8427

Sincerely,

*Original signed by*  
Alfred C. Dumauval, Ph. D., Section Chief  
Permits Branch  
Office of Air Quality

ACD/SJK

Attachment: Revised Registration

cc: File - DeKalb County  
DeKalb County Health Department  
Air Compliance Section  
IDEM Northern Regional Office  
Permit Tracking  
Compliance Data Section  
Permits Administrative and Development  
Billing, Licensing and Training Section



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## **REGISTRATION OFFICE OF AIR QUALITY**

**Cox Cabinet, Inc.  
1110 Fuller Drive  
Garrett, Indiana 46738**

Pursuant to 326 IAC 2-5.1 (Construction of New Sources: Registrations) and 326 IAC 2-5.5 (Registrations), (herein known as the Registrant) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this registration.

Registration No. 033-25442-00048	
Original signed by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: January 10, 2008

First Registration Notice-Only Change No. 033-26159-00048	
Issued by:  <i>Original signed by</i> Alfred C. Dumauval, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: March 18, 2008

## SECTION A

## SOURCE SUMMARY

This registration is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Registrant 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 Registrant to obtain additional permits pursuant to 326 IAC 2.

### A.1 General Information

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The Registrant owns and operates a stationary wood cabinet manufacturing plant.

Source Address:	1110 Fuller Drive, Garrett, IN 46738
Mailing Address:	1110 Fuller Drive, Garrett, IN 46738
General Source Phone Number:	(260) 357-6831
SIC Code:	2431
County Location:	DeKalb County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Registration

### A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) woodworking operation electrically interlocked with and controlled by dust collector (DC1), and exhausted into the building. This woodworking operation consists of the following:
- (1) One (1) 24" rip saw, constructed in 1995, with a maximum throughput rate of 736.3 board feet per hour and 2,577 pounds of wood per hour.
  - (2) Two (2) molding machines, constructed in 1995, each with a maximum throughput rate of 228 board feet per hour and 798 pounds of wood per hour.
  - (3) Three (3) chop defect saws, constructed in 1995, each with a maximum throughput rate of 68 board feet per hour and 238 pounds of wood per hour.
  - (4) One (1) straight line rip saw, constructed in 1996, with a maximum throughput rate of 210 board feet per hour and 735 pounds of wood per hour.
  - (5) One (1) 12" rip saw, constructed in 1997, with a maximum throughput rate of 425 board feet per hour and 1,488 pounds of wood per hour.
  - (6) One (1) double end cutoff saw, constructed in 1997, with a maximum throughput rate of 1,428 board feet per hour and 4,998 pounds of wood per hour.
  - (7) One (1) high speed molding machine, constructed in 1997, with a maximum throughput rate of 697 board feet per hour and 2,440 pounds of wood per hour.
  - (8) One (1) wide belt sander, constructed in 2001, with a maximum throughput rate of 32 board feet per hour, and 112 pounds of wood per hour.
  - (9) Two (2) defect saws, constructed in 2002, each with a maximum throughput rate of 68 board feet per hour and 238 pounds of wood per hour.
  - (10) Two (2) profile sanders, constructed in 2002, each with a total maximum throughput rate of 498 board feet per hour and 1,743 pounds of wood per hour.

Permit Reviewer: Rebecca Jacobs

- (b) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including seven (7) natural gas fired space heaters, constructed after 1995, each with a maximum heat input rate of 0.78 MMBtu/hr.
- (c) Machining where an aqueous cutting coolant continuously floods the machining interface, including two (2) profile knife grinders.
- (d) Two (2) surface coating lines, identified as Surface Coating Line #1 and Surface Coating Line #2, constructed in 2001, using a vacuum coater while applying UV-curable coatings and using air atomized spray or wipe coating application while applying non-UV-curable coatings, with a maximum non-UV-curable coating usage of 0.4 gal/hr, controlled by dry filters.
- (e) One (1) surface coating line, identified as Surface Coating Line #3, to be constructed in 2008, using a vacuum coater while applying UV-curable coatings and using air atomized spray or wipe coating application while applying non-UV-curable coatings, with a maximum non-UV-curable coating usage of 0.4 gal/hr, controlled by dry filters.
- (f) Two (2) touchup spray booths, identified as Booth A and Booth B, utilizing HVLP spray application, approved for construction in 2008 and venting to stack 002 and stack 004, respectively.

## SECTION B

## GENERAL CONDITIONS

### B.1 Definitions [326 IAC 2-1.1-1]

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Terms in this registration shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

### B.2 Effective Date of Registration [IC 13-15-5-3]

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Pursuant to IC 13-15-5-3, this registration is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

### B.3 Registration Revocation [326 IAC 2-1.1-9]

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Pursuant to 326 IAC 2-1.1-9 (Revocation), this registration to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this registration.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this registration.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this registration shall not require revocation of this registration.
- (d) For any cause which establishes in the judgment of IDEM the fact that continuance of this registration is not consistent with purposes of this article.

### B.4 Prior Permits Superseded [326 IAC 2-1.1-9.5]

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- (a) All terms and conditions of permits established prior to Registration No. 033-25442-00048 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 registration.

### B.5 Annual Notification [326 IAC 2-5.1-2(f)(3)] [326 IAC 2-5.5-4(a)(3)]

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Pursuant to 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3):

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this registration.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

Indianapolis, IN 46204-2251

- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

**B.6 Source Modification Requirement [326 IAC 2-5.5-6(a)]**

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Pursuant to 326 IAC 2-5.5-6(a), an application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

**B.7 Registrations [326 IAC 2-5.1-2(i)]**

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Pursuant to 326 IAC 2-5.1-2(i), this registration does not limit the source's potential to emit.

**SECTION C**

**SOURCE OPERATION CONDITIONS**

Entire Source

**Emission Limitations and Standards [326 IAC 2-5.1-2(g)] [326 IAC 2-5.5-4(b)]**

**C.1 Opacity [326 IAC 5-1]**

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

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

The Registrant 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).

## SECTION D.1

## OPERATION CONDITIONS

Facility Description [326 IAC 2-5.1-2(f)(2)] [326 IAC 2-5.5-4(a)(2)]:

- (a) One (1) woodworking operation electrically interlocked with and controlled by dust collector (DC1), and exhausted into the building. This woodworking operation consists of the following:
  - (1) One (1) 24" rip saw, constructed in 1995, with a maximum throughput rate of 736.3 board feet per hour and 2,577 pounds of wood per hour.
  - (2) Two (2) molding machines, constructed in 1995, each with a maximum throughput rate of 228 board feet per hour and 798 pounds of wood per hour.
  - (3) Three (3) chop defect saws, constructed in 1995, each with a maximum throughput rate of 68 board feet per hour and 238 pounds of wood per hour.
  - (4) One (1) straight line rip saw, constructed in 1996, with a maximum throughput rate of 210 board feet per hour and 735 pounds of wood per hour.
  - (5) One (1) 12" rip saw, constructed in 1997, with a maximum throughput rate of 425 board feet per hour and 1,488 pounds of wood per hour.
  - (6) One (1) double end cutoff saw, constructed in 1997, with a maximum throughput rate of 1,428 board feet per hour and 4,998 pounds of wood per hour.
  - (7) One (1) high speed molding machine, constructed in 1997, with a maximum throughput rate of 697 board feet per hour and 2,440 pounds of wood per hour.
  - (8) One (1) wide belt sander, constructed in 2001, with a maximum throughput rate of 32 board feet per hour, and 112 pounds of wood per hour.
  - (9) Two (2) defect saws, constructed in 2002, each with a maximum throughput rate of 68 board feet per hour and 238 pounds of wood per hour.
  - (10) Two (2) profile sanders, constructed in 2002, each with a total maximum throughput rate of 498 board feet per hour and 1,743 pounds of wood per hour.
- (b) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including seven (7) natural gas fired space heaters, constructed after 1995, each with a maximum heat input rate of 0.78 MMBtu/hr.
- (c) Machining where an aqueous cutting coolant continuously floods the machining interface, including two (2) profile knife grinders.
- (d) Two (2) surface coating lines, identified as Surface Coating Line #1 and Surface Coating Line #2, constructed in 2001, using a vacuum coater while applying UV-curable coatings and using air atomized spray or wipe coating application while applying non-UV-curable coatings, with a maximum non-UV-curable coating usage of 0.4 gal/hr, controlled by dry filters.

- (e) One (1) surface coating line, identified as Surface Coating Line #3, to be constructed in 2008, using a vacuum coater while applying UV-curable coatings and using air atomized spray or wipe coating application while applying non-US-curable coatings, with a maximum non-UV-curable coating usage of 0.4 gal/hr, controlled by dry filters.
  - (f) Two (2) touchup spray booths, identified as Booth A and Booth B, utilizing HVLP spray application, approved for construction in 2008 and venting to stack 002 and stack 004, respectively.
- (The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

**Emission Limitations and Standards [326 IAC 2-5.1-2(f)(1)] [326 IAC 2-5.5-4(a)(1)]**

**D.1.1 Particulate [326 IAC 6-3-2]**

- (a) Pursuant to 326 IAC 6-3-2(e), the particulate from the dust collector, DC1, which is integral to the woodworking operations, shall be limited by the following:

Unit	Max. Throughput Rate (lbs/hr)	Particulate Emission Limit (lbs/hr)
24" rip saw	2,577	4.86
Each molding machine	798	2.22
Each chop defect saw	238	0.98
Straight line rip saw	735	2.10
12" rip saw	1,488	3.36
Double end cutoff saw	4,998	7.57
High speed molding machine	2,440	4.68
Wide belt sander	112	0.59
Each defect saw	238	0.98
Each profile sander	1,743	3.74

The pounds per hour limitations above were calculated using 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:

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

- (b) Pursuant to 326 IAC 6-3-2(d), particulate from the three (3) finishing lines, identified as Surface Coating Lines #1 through #3, and the two (2) touchup booths, identified as Booth A and Booth B shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:

- (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

**D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-2-12]**

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

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

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

**Compliance Determination Requirements [326 IAC 2-5.1-2(g)][326 IAC 2-5.5-4(b)]**

**D.1.3 Particulate Control**

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In order to comply with D.1.1 and since dust collector DC1 is considered an integral part of the woodworking operations, particulate from the woodworking operation shall be controlled by dust collector DC1 at all times by an electrical interlock, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

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

**REGISTRATION  
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3) and 326 IAC 2-5.5-4(a)(3).

<b>Company Name:</b>	Cox Cabinet, Inc.
<b>Address:</b>	1110 Fuller Drive
<b>City:</b>	Garrett, Indiana 46738
<b>Phone Number:</b>	(260) 357-6831
<b>Registration No.:</b>	033-25442-00048

I hereby certify that Cox Cabinet, Inc. is :

- still in operation.
- no longer in operation.
- in compliance with the requirements of Registration No. 033-25442-00048.
- not in compliance with the requirements of Registration No. 033-25442-00048.

I hereby certify that Cox Cabinet, Inc. is :

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Phone Number:</b>
<b>Date:</b>

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

<b>Noncompliance:</b>