TITLE 326 AIR POLLUTION CONTROL BOARD

FINDINGS AND DETERMINATION OF THE COMMISSIONER
PURSUANT TO IC 13-14-9-7 AND SECOND NOTICE OF COMMENT PERIOD
LSA Document #09-220

DEVELOPMENT OF AMENDMENTS TO RULES CONCERNING APPLICATION OF REASONABLY AVAILABLE CONTROL TECHNOLOGY (RACT) FOR VOLATILE ORGANIC COMPOUND EMISSIONS FROM SURFACE COATING, PRINTING, AND GRAPHIC ARTS OPERATIONS

PURPOSE OF NOTICE

The Indiana Department of Environmental Management (IDEM) has developed draft rule language for amendments to 326 IAC 8 for application of reasonably available control technology (RACT) to limit emissions of volatile organic compound (VOC) from surface coating, printing, and graphic arts operations in ozone nonattainment counties. The purpose of this notice is to seek public comment on the draft rule, including suggestions for specific language to be included in the rule. IDEM seeks comment on the affected citations listed and any other provisions of Title 326 that may be affected by this rulemaking.

CITATIONS AFFECTED: 326 IAC 8.

AUTHORITY: IC 13-14-18; IC 13-17-3-4; IC 13-17-3-11.

STATUTORY REQUIREMENTS

IC 13-14-9-7 recognizes that under certain circumstances it may be appropriate to reduce the number of public comment periods routinely provided. In cases where the commissioner determines that the rulemaking policy alternatives available to IDEM are so limited that the notice of first public comment period would provide no substantial benefit, IDEM may forgo this comment period and proceed directly to the notice of second public comment period.

If the commissioner makes the determination of limited rulemaking policy alternatives required by IC 13-14-9-7, the commissioner shall prepare written findings and include them in the second notice of public comment period published in the Indiana Register. This document constitutes the commissioner's written findings pursuant to IC 13-14-9-7.

The statute provides for this shortened rulemaking process if the commissioner determines that "the rulemaking policy alternatives available to the department are so limited that the public notice and comment period under (IC 13-14-9-3)... would provide no substantial benefit to:

(1) the environment; or
(2) persons to be regulated or otherwise affected by the proposed rule.".

BACKGROUND

Section 182(b)(2) of the Clean Air Act requires implementation of RACT for sources of VOCs in moderate ozone nonattainment areas, for which U.S. EPA has published a Control Technique Guideline (CTG). CTGs are used under U.S. EPA regulations to presumptively define RACT. Indiana is under a federal time clock that runs out in September 2009 for implementing VOC RACT in counties that were designated as nonattainment for the 8-hour standard for ozone (85 ppb). States with moderate ozone nonattainment areas are also required to update existing VOC RACT regulations within one year of U.S. EPA issuing an updated CTG or before a county can be redesignated as attaining the standard. U.S. EPA has issued new CTGs for automobile and light duty truck assembly coatings, paper coating, metal furniture coating, large appliance coating, miscellaneous metal and plastic parts coatings, flat wood paneling, and flexible package printing. Adoption of VOC RACT rules updated with the most recent CTGs in Lake and Porter counties, both currently designated as moderate nonattainment areas, is necessary for amending the state implementation plan (SIP) to secure redesignation approval by U.S. EPA consistent with current federal regulations.

Although IDEM expects Lake and Porter counties to be redesignated as attainment by early 2010, there is no guarantee that the counties will in fact be redesignated. This is primarily due to uncertainty associated with the meteorological conditions from one ozone season to another. Therefore, sources need to be prepared to comply with the requirements of these rules on April 1, 2011. However, it is IDEM's intention to repeal these rules once Lake County and Porter County are redesignated as attainment for the 1997 8-hour standard for ozone (85 ppb). IDEM is currently in discussions with U.S. EPA in regards to available options with moving these VOC RACT controls to contingency measures in the maintenance plan. These VOC RACT rules were not part of the control measures that IDEM used to demonstrate redesignation of attainment. Redesignation could be effective in early 2010, which means that it is possible that these requirements may be repealed prior to the compliance date.

This proposed rulemaking updates state VOC RACT rules in 326 IAC 8 consistent with the control
recommendations (that is, presumptive RACT) in the applicable CTG for facilities located in Lake County and Porter County. IDEM is proposing that the new requirements from the revised CTGs for Lake County and Porter County facilities would be applicable on and after April 1, 2011. The CTGs are available on U.S. EPA’s website at: http://www.epa.gov/ttn/naaqs/ozone/ctg_act

U.S. EPA has also issued new CTGs for lithographic and letterpress printing, industrial solvent cleaning operations, and miscellaneous industrial adhesives. While previously issued CTGs and alternative control technology (ACT) documents for aerospace manufacturing, industrial wastewater collection and treatment, synthetic organic chemical manufacturing industry (SOCl), and batch process have not recently been updated by U.S. EPA, IDEM is proposing to adopt rules for these source categories since IDEM had not previously adopted rules for these categories. IDEM is addressing these rulemakings in separate rulemaking notices.

Automobile and Light Duty Truck Assembly Coatings (326 IAC 8-1-2, 326 IAC 8-1-4, and 326 IAC 8-2-2)

This CTG applies to automobile and light duty truck assembly coating operations. The source category includes primary coatings that are applied to new automobile or new light duty truck bodies, or body parts for new automobiles or new light duty trucks, and other parts that are coated along with these bodies or body parts. The draft rule requires application of new coating limits, development of a work practice plan, and solvent cleaning work practices applicable to facilities with uncontrolled emissions exceeding 15 pounds per day of VOC. The amendments add a new category for electrodeposition primer based on the limit in the new source performance standard (NSPS) for surface coating of automobile and light duty trucks at 40 CFR 60, Subpart MM, and new reduced limits for primer-surferce and topcoat operations. Limits for final repair operations based on a 1977 CTG for this source category will not change. VOC limits for miscellaneous materials are derived from the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Surface Coating of Automobile and Light Duty Trucks at 40 CFR 63, Subpart IIII. Facilities also subject to this NESHAP will not need to develop a new work practice plan but can add additional procedures for minimizing VOC emissions. As part of this CTG update, U.S. EPA also revised the Automobile Topcoat Protocol (EPA-453/R-08-002 September 2008) incorporated by reference at 326 IAC 8-1-2 (Compliance Methods). This rulemaking proposes to update this incorporation by reference for calculating daily weight average basis. This rulemaking would amend 326 IAC 8-1-2, 326 IAC 8-1-4, and 326 IAC 8-2-2 and is based on control recommendations in the CTG (EPA-453/R-08-006 September 2008).

Paper Coating (326 IAC 8-2-5)

This CTG applies to paper, film, and foil coating lines. The draft rule applies new limits based on mass of VOC per mass of coating solids applied to individual coating lines emitting at least 25 tons per year VOC (potential) from the coating applicators and drying ovens. Additional solvent cleaning work practices apply to facilities emitting at least 15 pounds per day of uncontrolled VOC emissions from all coating lines and related coating cleaning activities at the facility. The new limits can either be achieved through the use of compliant coatings based on VOC content or installation of VOC control devices to achieve a 90 percent VOC control efficiency, or a combination of the two options. Current VOC emission limits continue to apply for sources emitting less than the 25 ton per year VOC threshold, but more than the 15 pound per day threshold, in Lake County and Porter County. This rulemaking would amend 326 IAC 8-2-5 and is based on control recommendations in the CTG (EPA-453/R-07-003 September 2007).


Three separate CTGs apply to metal furniture coating, large appliance coating, and flat wood panel coating. The draft rule requires application of new coating limits by coating type based on mass of VOC per volume of nonwater coating as applied and solvent cleaning work practices applicable to facilities with uncontrolled emissions exceeding 15 pounds per day of VOC. The draft rule also establishes specific application equipment techniques for the metal furniture and large appliance source categories. The new limits can either be achieved through the use of compliant coatings based on VOC content or installation of VOC control devices to achieve a 90 percent VOC control efficiency, or a combination of the two options. This rulemaking would amend 326 IAC 8-2-6, 326 IAC 8-2-7, 326 IAC 8-2-10 and is based on control recommendations in each CTG.

Miscellaneous Metal and Plastic Parts (326 IAC 8-2-9) (EPA-453/R-08-003 September 2008)

This CTG applies to miscellaneous metal products and miscellaneous plastic parts surface coating operations. It does not include coatings that are part of other product categories listed under Section 183(e) of the Clean Air Act for which CTGs have been published. The CTGs apply where actual VOC emissions from all miscellaneous metal product and plastic parts coating operations, including related cleaning activities, equal or exceed 15 pounds per day. VOC content limits have been added for metal parts, and plastic parts, automotive/transportation coatings, business machines, motor vehicle materials, and pleasure craft surface coating. Currently, 326 IAC 8-2-9 only applies to metal parts; therefore, only the amendments for Lake County and Porter County have been extended to include metal and plastic parts. This CTG covers facilities that would have been covered by the 1994 ACT for Surface Coating of Automotive/Transportation and Business Machine Plastic Parts; therefore, IDEM will not need to address this ACT for VOC RACT. This rulemaking would amend...
326 IAC 8-2-9 and is based on control recommendations in the CTG (EPA-453/R-08-003 September 2008).

Flexible Package Printing (326 IAC 8-5-5) (EPA-453/R-06-003 September 2006)

This CTG applies to flexible package printing presses and related cleaning activities. The draft rule amendments apply to individual large presses emitting 25 tons per year of VOC from inks, coatings and adhesives, combined, from the press dryer. Sources may choose to reduce VOC emissions from individual presses by either installing control systems or accepting VOC content limits for inks, coatings, and adhesives. The solvent cleaning work practices portion of the amendment applies to facilities with uncontrolled emissions exceeding 15 pounds per day of VOC from all flexible package printing presses and related flexible package cleaning activities at the facility. The CTG only updated limits for packaging rotogravure processes and flexographic printing processes, a subset of the graphic arts rule at 326 IAC 8-5-5; therefore, the current limits for publication rotogravure processes will continue to apply after April 1, 2011, for facilities in Lake and Porter counties, as they currently do statewide.

The rulemaking policy alternatives are limited for this rulemaking. This rulemaking is based on the control recommendations contained in U.S. EPA's CTG documents. Although state agencies developing RACT rules may elect control approaches that differ from those described in the CTG, in practice it is difficult to establish alternative control approaches that are approvable by U.S. EPA (see below IC 13-14-9-4 analysis). Thus options for varying from the control recommendations contained in the CTG are limited.

Identification of Restrictions and Requirements Not Imposed under Federal Law

No element of the draft rule imposes either a restriction or a requirement on persons to whom the draft rule applies that is not imposed under federal law. This VOC RACT rule is necessary for IDEM to meet a Clean Air Act requirement. The applicable CTGs presumptively define RACT under U.S. EPA regulations. When a state submits a RACT rule that is consistent with the presumptive RACT, the state does not need to submit additional support to demonstrate that the rule meets the Clean Air Act's RACT requirement. Section 182(b)(2)(D) of the Clean Air Act requires IDEM to adopt VOC RACT for CTG source categories where (as described herein) applicable sources are identified in nonattainment areas of a state in order to secure redesignation of such area.

Potential Fiscal Impact

Since this rulemaking addresses a Clean Air Act requirement, there are no additional costs beyond those already imposed under federal law. A summary of cost estimates provided by U.S. EPA in each of the CTG documents is provided below. The department is asking for information from affected sources on their ability to meet the requirements in these proposed amendments and to help estimate the cost of compliance. At this time, IDEM anticipates that there will be very few or no sources for some source categories subject to these amendments in Lake County and Porter County. Potentially affected sources have been identified for flexible packaging and miscellaneous metal and plastic parts. No known sources in Lake County and Porter County have been identified for other source categories.

Automobile and Light Duty Truck Assembly Coating

U.S. EPA has determined that there are 33 automobile and light duty truck assembly coating facilities in nonattainment areas nationwide affected by this CTG. IDEM does not think that there are any sources subject to this draft rule in Lake County and Porter County. These facilities have already reduced their VOC emissions in order to comply with a NSPS and NESHAP that also applies to this source category. Consequently, there are no additional VOC emission reductions and no cost to implement the CTG. Net savings are expected from the implementation of the work practice requirements.

Paper Coating

Cost estimates contained in the federal CTG for add-on control requirements range from zero to $2,312,499 annually per plant using a model plant approach to estimate cost. Some facilities have already reduced their VOC emissions in order to comply with the 2002 NESHAP for Paper and Other Web Coatings. U.S. EPA has estimated that 47 percent of the facilities in ozone nonattainment areas are already complying with the NESHAP. U.S. EPA considers that the work practice recommendations will result in a net cost savings. Implementing work practices reduces the amount of cleaning materials used by reducing the amount that evaporates and is wasted.

Metal Furniture

U.S. EPA has estimated, according to the CTG, that the total annual cost for each of the 143 potentially affected facilities nationwide to be $240,500.

Large Appliance

U.S. EPA has estimated, according to the CTG, that the total annual cost for all facilities nationwide affected by this rule to be $500,000.

Miscellaneous Metals and Plastic Parts

U.S. EPA has estimated, according to the CTG, that the total annual cost for all of the 1,296 potentially affected facilities nationwide to be $13.6 million, based on the use of low VOC coatings.

Flat Wood Paneling

U.S. EPA has found 24 flat wood paneling facilities in 13 states, none of which are in Lake County or Porter County. U.S. EPA has estimated, according to the CTG, that the total annual cost per facility to be an average of $101,000.
Flexible Package Printing

Many facilities located in ozone nonattainment areas are already meeting the control levels in the CTG. The costs for facilities not using low VOC content ink, coatings, and adhesives and that are not already using control equipment, will vary depending on the flow rate, hourly solvent use rate, and operating hours. For a press exhausting approximately 5,800 cubic feet per minute, operating 2,000 hours per year, and achieving 70 percent capture efficiency, U.S. EPA estimates the VOC emission reduction to range from 33 to 66 tons per year and the cost effectiveness to range from $1,300 per ton to $2,800 per ton depending on the average hourly solvent use rate. At lower solvent use rates, the cost per ton of emission controlled would likely be higher. Increasing the hourly solvent use rate, annual operating hours, or capture efficiency of this size press would increase the annual VOC emission reduction and improve the cost effectiveness. Larger presses with proportionately larger hourly solvent use rates would also have larger annual VOC emission reductions and better cost effectiveness than smaller presses.

Public Participation and Workgroup Information

At this time, no workgroup is planned for the rulemaking. If you feel that a workgroup or other informal discussion on the rule is appropriate, please contact Susan Bem, Rules Development Branch, Office of Legal Counsel (317) 233-5697 or (800) 451-6027 (in Indiana).

Small Business Assistance Information

IDEM established a compliance and technical assistance (CTAP) program under IC 13-28-3. The program provides assistance to small businesses and information regarding compliance with environmental regulations. In accordance with IC 13-28-3 and IC 13-28-5, there is a small business assistance program ombudsman to provide a point of contact for small businesses affected by environmental regulations. Information on the CTAP program, the monthly CTAP newsletter, and other resources available can be found at:

http://www.in.gov/idem/4108.htm

Small businesses affected by this rulemaking may contact the Small Business Regulatory Coordinator:

Alison Surface
IDEM Compliance and Technical Assistance Program - OPPTA
MC 60-04 IGCS W-041
100 North Senate Avenue
Indianapolis, IN 46204-2251
(317) 232-8172 or (800) 988-7901
ctap@idem.in.gov

The Small Business Assistance Program Ombudsman is:
Brad Baughn
IDEM Small Business Assistance Program Ombudsman
MC 50-01 - IGCN 1307
100 North Senate Avenue
Indianapolis, IN 46204-2251
(317) 234-3386
bbaughn@idem.in.gov

FINDINGS

The commissioner of IDEM has prepared written findings regarding rulemaking on automobile and light duty truck assembly coatings; paper, film, and foil coating; metal furniture coating; large appliance coating; flat wood panel coating; miscellaneous metal and plastic pastes; and flexible package printing. These findings are prepared under IC 13-14-9-7 and are as follows:

(1) This rulemaking is based on the control recommendations contained in U.S. EPA’s CTG documents that presumptively define RACT for particular industries. Although state agencies developing RACT rules may elect control approaches that differ from those described in the CTG, in practice it is difficult to establish alternative control approaches that are approvable by U.S. EPA. Thus options for varying from the control recommendations contained in the CTG are limited. The control requirements contained in this draft rule are equivalent to those contained in the CTG that have already gone through public comment at the federal level. This notice will provide the opportunity to comment on how these control requirements will be implemented in Indiana.

(2) I have determined that under the specific circumstances pertaining to this rule, the rulemaking policy alternatives are so limited that the public notice and comment period provided in the notice of first public comment period would provide no substantial benefit to the environment or to persons to be regulated or otherwise affected by the rule.

(3) The draft rule is hereby incorporated into these findings.

Thomas W. Easterly
Commissioner
REQUEST FOR PUBLIC COMMENTS

This notice requests the submission of comments on the draft rule language, including suggestions for specific revisions to language to be contained in the rule. Mailed comments should be addressed to:

#09-220(APCB) VOC RACT Amendments
Susan Bem Mail Code 61-49
Office of Administrative Assistant
Rules Development Branch
Office of Legal Counsel
Indiana Department of Environmental Management
100 North Senate Avenue
Indianapolis, Indiana 46204

Hand delivered comments will be accepted by the receptionist on duty at the thirteenth floor east reception desk, Indiana Department of Environmental Management, 100 North Senate Avenue, Indianapolis, Indiana.

Comments may be submitted by facsimile at the IDEM fax number: (317) 233-5517, Monday through Friday, between 8:15 a.m. and 4:45 p.m. Please confirm the timely receipt of faxed comments by calling the Rules Development Branch at (317) 233-8903.

COMMENT PERIOD DEADLINE

Comments must be postmarked, faxed, or hand delivered by May 29, 2009.

Additional information regarding this action may be obtained from Susan Bem, Rules Development Section, Office of Legal Counsel, (317) 233-5697 or (800) 451-6027 (in Indiana).

DRAFT RULE

SECTION 1. 326 IAC 8-1-0.5 IS AMENDED TO READ AS FOLLOWS:

326 IAC 8-1-0.5 Definitions

Authority: IC 13-14-8; IC 13-17-3-4
Affected: IC 13-12-3-1

Sec. 0.5. (a) The definitions in this section apply throughout this article.

(b) “Agency” means the department of environmental management, office of air management, located at the Indiana Government Center-North, 100 North Senate Avenue, Room 1001, Indianapolis, Indiana 46204.

(e) (b) “Coating” means the application of protective, functional, or decorative films.

(c) “CTG” means a control technique guideline. A CTG is a U.S. EPA guidance document that triggers a responsibility under Section 182(b)(2) of the Clean Air Act regarding certain nonattainment areas for states to submit reasonably available control technology (RACT) rules for stationary source of VOC emissions as part of their state implementation plans.

(Air Pollution Control Board; 326 IAC 8-1-0.5; filed Sep 23, 1988, 11:59 a.m.: 12 IR 256; filed Oct 28, 1993, 5:00 p.m.: 17 IR 331; filed Sep 18, 1995, 3:00 p.m.: 19 IR 202)

SECTION 2. 326 IAC 8-1-2 IS AMENDED TO READ AS FOLLOWS:

326 IAC 8-1-2 Compliance methods

Authority: IC 13-14-8
Affected: IC 13-17

Sec. 2. (a) The emission limitations specified in this article shall be achieved through one (1) or any combination of the following:

(1) Carbon adsorption.
(2) Thermal or catalytic incineration. The owner or operator of a source using a natural gas afterburner incineration method may petition the commissioner for permission to not operate the natural gas afterburner during the months of November, December, January, February, and March. The commissioner may allow such exemption if the owner or operator adequately demonstrates that the operation of the natural gas afterburner is not required for control of toxic substances or odor.

(3) Higher solids (low solvent) coatings, including powder, ultraviolet, and electron beam coatings.

(4) Waterborne coatings.

(5) Equivalent emission limitations based on an actual measured transfer efficiency greater than the specified baseline transfer efficiency as follows:

(A) This subdivision is applicable only to the following:
   i. \(326\) IAC 8-2-2(b)(2), automobiles and light duty truck assembly operations.
   ii. \(326\) IAC 8-2-6, metal furniture coating operations.
   iii. \(326\) IAC 8-2-7, large appliance coating operations.
   iv. \(326\) IAC 8-2-9, miscellaneous metal coating operations.

(B) For metal furniture coating operations, large appliance coating operations, or miscellaneous metal coating operations, this subdivision and the equivalent emission limits it contains may not be used to determine compliance unless a test method for determining actual measured transfer efficiency has been specified by U.S. EPA or submitted to U.S. EPA and approved as a SIP revision.

(C) The equivalent emission limitations in units of kilograms of volatile organic compounds (VOC) per liter solids deposited (pounds of VOC per gallon solids deposited), baseline transfer efficiencies, and baseline volume percent solids content of the coating are specified below:

<table>
<thead>
<tr>
<th>Category</th>
<th>Equivalent Emission Limit</th>
<th>Baseline Transfer Efficiency</th>
<th>Baseline Volume Percent Solids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automobiles and light duty trucks assembly</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(topcoat)</td>
<td>1.83 (15.1)</td>
<td>30</td>
<td>62.0</td>
</tr>
<tr>
<td>Metal furniture</td>
<td>1.01 (8.4)</td>
<td>60</td>
<td>59.2</td>
</tr>
<tr>
<td>Large appliances</td>
<td>0.91 (7.4)</td>
<td>60</td>
<td>62.0</td>
</tr>
<tr>
<td>Miscellaneous metal coating category</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clear coatings</td>
<td>2.08 (17.3)</td>
<td>60</td>
<td>41.6</td>
</tr>
<tr>
<td>Air dried up to 90°C</td>
<td>1.34 (11.2)</td>
<td>60</td>
<td>52.4</td>
</tr>
<tr>
<td>Extreme performance coatings</td>
<td>1.34 (11.2)</td>
<td>60</td>
<td>52.4</td>
</tr>
<tr>
<td>All other coatings and coating systems</td>
<td>1.01 (8.4)</td>
<td>60</td>
<td>59.2</td>
</tr>
</tbody>
</table>

(D) Compliance with an equivalent emission limit shall be determined as follows:

(i) For automobile and light duty topcoating operations and combined primer-surfacer and topcoat operations, use procedures found in "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Primer-Surfacer and Topcoat Operations"; EPA-450/3-88-018; December 1988*.

(ii) For metal furniture coating operations, large appliance coating operations, or miscellaneous metal coating operations use the following equation:

\[
E = \frac{L}{[(1 - (L / D)) \times (T)]}
\]

Where:
- \(E\) = Actual emissions in pounds of VOC per gallon of coating solids deposited.
- \(L\) = Actual VOC content in pounds of VOC per gallon of coating, as applied, excluding water and nonphotochemically reactive hydrocarbons.
- \(D\) = Actual density of the VOC in the coating in pounds per gallon of VOC.
- \(T\) = Actual measured transfer efficiency.

(6) The use of nonphotochemically reactive hydrocarbons as defined in \(326\) IAC 1-2-48.

(7) A daily volume-weighted average of all coatings applied in a coating line or printing line subject to the requirements in \(326\) IAC 8-2 or \(326\) IAC 8-5-5. Records of daily usage of gallons solids coating and VOC content of each coating, ink, and solvent shall be maintained and made available upon request. Also, records of daily emissions in pounds VOC shall be maintained and made available upon request. If daily records sufficient to determine an accurate daily weighted average are not available, each coating, ink, and solvent shall meet the requirements of the applicable section.

(8) The use of an emission control device specifically allowed under provisions of any rule in this article to meet the emission limitations specified in the rule.

(9) This subdivision is applicable only to dip coating or flow coating operations at miscellaneous metal coating operations subject to \(326\) IAC 8-2-9.
(A) For dip coating or flow coating operations only. The equivalent emission limit in kilograms VOC/liter (lb/gallon) of coating solids is as follows:

<table>
<thead>
<tr>
<th>Miscellaneous metal coating category</th>
<th>Limit in kilograms VOC/liter (lb/gallon) of coating less water</th>
<th>Equivalent emission limit in kilograms VOC/liter (lb/gallon) of coating solids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear coatings</td>
<td>0.52 (4.3)</td>
<td>1.22 (10.2)</td>
</tr>
<tr>
<td>Air dried or forced warm air dried at temperatures up to ninety (90) degrees Celsius (one hundred ninety-four (194) degrees Fahrenheit)</td>
<td>0.42 (3.5)</td>
<td>0.80 (6.7)</td>
</tr>
<tr>
<td>Extreme performance coatings</td>
<td>0.42 (3.5)</td>
<td>0.80 (6.7)</td>
</tr>
<tr>
<td>All other coatings and coating application systems</td>
<td>0.36 (3.0)</td>
<td>0.61 (5.1)</td>
</tr>
</tbody>
</table>

(B) Compliance with the equivalent emission limit shall be determined by doing the following:

(i) Calculate the VOC content of a dip coating or flow coating, expressed in units of weight of VOC per volume of coating solids, on a thirty (30) day rolling average basis using the following equation:

\[
\text{VOC}_A = \frac{(W_{oi} \times D_{ci} \times Q_i) + (W_{oJ} \times D_{dJ} \times Q_J)}{(V_{ni} \times Q_i)}
\]

Where:
- \(\text{VOC}_A\) = The as-applied, VOC content in pound VOC per gallon (lb VOC/gal) of coating solids for a dip coating or flow coating, calculated on a thirty (30) day rolling average basis.
- \(W_{oi}\) = Percent VOC by weight of each as supplied coating (i) added to the dip coating or flow coating process, expressed as a decimal fraction (that is 55% = 0.55).
- \(D_{ci}\) = Density of each as supplied coating (i) added to the dip coating or flow coating process, in pounds per gallon.
- \(Q_i\) = Quantity of each as supplied coating (i) added to the dip coating or flow coating process, in gallons.
- \(V_{ni}\) = Percent solids by volume of each as supplied coating (i) added to the dip coating or flow coating process, expressed as a decimal fraction.
- \(W_{oJ}\) = Percent VOC by weight of each thinner (J) added to the dip coating or flow coating process, expressed as a decimal fraction.
- \(D_{dJ}\) = Density of each thinner (J) added to the dip coating or flow coating process, in pounds per gallon.
- \(Q_J\) = Quantity of each thinner (J) added to the dip coating or flow coating process, in gallons.

(ii) Maintain the following records on a daily basis for each VOC-containing coating, solvent, or other material added to the tank:

(AA) The following parameters for each coating, thinner, or other material as supplied:
- (aa) The coating, thinner, or other material identification number.
- (bb) The volume used.
- (cc) The mix ratio.
- (dd) The density or specific gravity.
- (ee) The weight percent of total volatiles, water, solids, and exempt solvents.
- (ff) The percent volume of solids.

(BB) The VOC content of each coating and thinner as supplied.

(CC) The VOC content of each as-applied coating.

(iii) Maintain all records necessary to confirm compliance as follows:

(AA) On site for the most recent three (3) year period.

(BB) Make reasonably accessible for an additional two (2) years.

(b) VOC emissions shall be limited to not greater than the equivalent emissions, expressed as pounds of VOC per gallon of coating solids, allowed under the applicable emission limitation contained in this article for any surface coating operation using the compliance methods contained in subsection (a) or section 5 of this rule.

(1) Equivalency shall be determined by the following equation:
Where:  
\[ E = \frac{L}{1 - \frac{L}{D}} \]  
\( E = \) Equivalent emission limit in pounds of VOC per gallon of coating solids, as applied.  
\( L = \) Applicable emission limit from this article in pounds of VOC per gallon of coating.  
\( D = \) Baseline solvent density of VOC in the coating and shall be equal to seven and thirty-six hundredths (7.36) pounds of VOC per gallon of solvent.

(2) Compliance with an equivalent emission limit established in subdivision (1) shall be determined according to the following equation:

\[ E_a = \frac{L_a}{1 - \frac{L_a}{D_a}} \]  
Where:  
\( E_a = \) Actual emissions in pounds of VOC per gallon of coating solids, as applied.  
\( L_a = \) Actual VOC content in pounds of VOC per gallon of coating, as applied.  
\( D_a = \) Actual density of the VOC in the coating, as applied, in pounds per gallon of VOC.

(c) The overall efficiency of any capture system and control device determined by the test methods and procedures specified in section 4 of this rule shall be not less than the equivalent overall efficiency, which shall be calculated by the following equation:

\[ O = \frac{V - E}{V} \times 100 \]  
Where:  
\( V = \) The actual VOC content of the coating or, if multiple coatings are used, the daily weighted average VOC content of all coatings, as applied to the subject coating line as determined by the applicable test methods and procedures specified in section 4 of this rule and of units of pounds of VOC per gallon of coating solids as applied.  
\( E = \) Equivalent emission limit in pounds of VOC per gallon of coating solids as applied.  
\( O = \) Equivalent overall efficiency of the capture system and control device as a percentage.

(d) Any other equivalent method must be submitted and approved as a SIP revision by U.S. EPA before it can be used to determine or achieve compliance with any provision of this article.

*This document is incorporated by reference and may be obtained from the Library Services Office (MD-35), United States Environmental Protection Agency, Office of Air Quality, Planning and Standards, Research Triangle Park, NC 27711 or is available for review and copying at the Indiana Department of Environmental Management, Office of Air Quality, Office of Legal Counsel, Indiana Government Center North, Tenth Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Air Pollution Control Board; 326 IAC 8-1-2; filed Mar 10, 1988, 1:20 p.m.: 11 IR 2527; errata, 11 IR 2632; filed Sep 23, 1988, 11:59 a.m.: 12 IR 256; filed Jan 16, 1990, 4:00 p.m.: 13 IR 1016; filed Apr 18, 1990, 4:55 p.m.: 13 IR 1676; filed May 9, 1990, 5:00 p.m.: 13 IR 1845; filed May 6, 1991, 4:45 p.m.: 14 IR 1713; filed Aug 21, 1996, 2:00 p.m.: 20 IR 6; filed Nov 15, 2002, 11:27 a.m.: 26 IR 1073)

SECTION 3. 326 IAC 8-1-4 IS AMENDED TO READ AS FOLLOWS:

326 IAC 8-1-4 Testing procedures
Authority: IC 13-14-8; IC 13-14-9-7
Affected: IC 13-15; IC 13-17
Sec. 4. (a) The following test methods and procedures shall be used to determine compliance of as-applied coatings with the limitations contained in this article:

(1) Sampling procedures shall follow the guidelines presented in the following:
   (A) ASTM D3925, "Standard practice for sampling liquid paints and related pigment coatings"**.
   (B) ASTM E300, "Standard practice for sampling industrial chemicals"**.

(2) Samples collected for analysis shall be one (1) liter taken into a one (1) liter container at a location and time such that the sample will be representative of the coating as applied. The container must be tightly sealed immediately after the sample is taken. Any solvent or other volatile organic material added after the sample is taken must be measured and accounted for in the calculations in subdivision (4). For multiple package coatings, separate samples of each component shall be obtained.

(3) The following applicable analytical methods shall be used to determine the composition of coatings as applied:
   (A) Method 24 of 40 CFR 60, Appendix A**, shall be used to determine the volatile organic compound content in coatings. If it is demonstrated to the commissioner that plant coating formulation data are equivalent to Method 24 results, formulation data may be used. Any determination approving the use of formulation data shall be submitted to the U.S. EPA as a SIP revision. In the event of any inconsistency between a Method 24 test and a facility's formulation data, the Method 24 test will govern.
   (B) Method 24A of 40 CFR 60, Appendix A**, shall be used to determine the volatile organic compound content and density of rotogravure printing inks and related coatings. If it is demonstrated to the satisfaction of the commissioner that plant coating formulation data are equivalent to Method 24A results, formulation data may be used. Any determination approving the use of formulation data shall be submitted to the U.S. EPA as a SIP revision. In the event of any inconsistency between a Method 24A test and a facility's formulation data, the Method 24A test will govern.
   (C) The following ASTM methods are the analytical procedures for determining certain factors related to coatings:
      (i) ASTM D1475-60, "Standard test method for density of paint, varnish, lacquer, and related products"**.
      (ii) ASTM D2369-87, "Standard test method for volatile content of a coating"**.
      (iii) ASTM D3792-86, "Standard test method for water content of water-reducible paints by direct injection into a gas chromatograph"**.
      (iv) ASTM D4017-81, "Standard test method for water content in paints and paint materials by the Karl Fischer method"**.
      (v) ASTM D4457-85, "Standard test method for determination of dichloromethane and 1, 1, 1, trichloroethane in paints and coatings by direct injection into a gas chromatograph"**. This method may be used to develop protocols for any compound specifically exempted from the definition of volatile organic compound.
      (vi) ASTM D2697-86, "Standard test method for volume nonvolatile matter in clear or pigmented coatings"**.
      (vii) ASTM D3980, "Standard practice for interlaboratory testing of paint and related materials"**.
      (viii) ASTM E180-85, "Practice for determining the precision data of ASTM methods for analysis of and testing of industrial chemicals"**.
      (ix) ASTM D2372-85, "Standard method of separation of vehicle from solvent-reducible paints"**.

(D) 40 CFR 63, Subpart PPPP, Appendix A**, shall be used to determine the VOC content of reactive adhesives.

(b) The protocol for determining the transfer efficiency of coating applicators at topcoat coating operations at an automobile assembly facility shall follow the procedure in EPA 450/3-88-018, "Protocol for Determining the Daily VOC Emission Rate of Automobile and Light Duty Truck Topcoat Operations", December 1988*.

(c) The following test methods, as appropriate, shall be used by emission sources required to determine capture efficiency:
(1) Test methods in 40 CFR 51, Appendix M**, as follows:
   (A) Method 204, Criteria for and Verification of a Permanent or Temporary Total Enclosure**.
   (B) Method 204A, Volatile Organic Compounds Content in Liquid Input Stream**.
   (C) Method 204B, Volatile Organic Compounds Emissions in Captured Stream**.
   (D) Method 204C, Volatile Organic Compounds Emissions in Captured Stream (Dilution Technique)**.
   (E) Method 204D, Volatile Organic Compounds Emissions in Uncaptured Stream from Temporary Total Enclosure**.
   (F) Method 204E, Volatile Organic Compounds Emissions in Uncaptured Stream from Building Enclosure**.
   (G) Method 204F, Volatile Organic Compounds Content in Liquid Input Stream (Distillation Approach)**.

(2) Alternative capture efficiency protocols and test methods may be used that satisfy criteria of either the data quality objective approach or the lower confidence limit approach as listed in 40 CFR 63, Subpart KK, Appendix A**.

(d) Control device efficiency shall be determined by simultaneously measuring the inlet and outlet gas phase volatile organic material concentrations and gas volumetric flow rates in accordance with the gas phase test methods specified in subsection (f).

(e) The overall efficiency of the emission control system shall be determined as the product of each individual capture system efficiency and each control device efficiency or by the liquid/liquid test protocol for each solvent recovery system. In those cases in which the overall efficiency is being determined for an entire line, the capture efficiency represents the total capture efficiency over the entire line.

(f) Determination of control efficiency shall be made using the following methods:
   (1) 40 CFR 60, Appendix A, Method 18**, 25**, or 25A**, as appropriate to the conditions at the site, shall be used to determine volatile organic compound concentration. Method selection shall be based on consideration of the diversity of organic species present, their total concentration, and on consideration of the potential presence of interfering gases. Except as indicated in the following, the test shall consist of three (3) separate runs, each lasting a minimum of sixty (60) minutes, unless the commissioner determines that process variables dictate shorter sampling times:
      (A) When the method is to be used to determine the efficiency of a fixed-bed carbon adsorption system with a common exhaust stack for all the individual adsorber vessels, the test shall consist of three (3) separate runs, each coinciding with one (1) or more complete sequences through the adsorption cycles of all the individual adsorber vessels.
      (B) When the method is to be used to determine the efficiency of a fixed-bed carbon adsorption system with individual exhaust stacks for each adsorber vessel, each adsorber vessel shall be tested individually. The test for each adsorber vessel shall consist of three (3) separate runs. Each run shall coincide with one (1) or more complete adsorption cycles.
   (2) 40 CFR 60, Appendix A, Method 1** or 1A** shall be used for sample and velocity traverses.
   (3) 40 CFR 60, Appendix A, Method 2**, 2A**, 2C**, or 2D** shall be used for velocity and volumetric flow rates.
   (4) 40 CFR 60, Appendix A, Method 3** shall be used for gas analysis.
   (5) 40 CFR 60, Appendix A, Method 4** shall be used for stack gas moisture.
   (6) 40 CFR 60, Appendix A, Methods 2**, 2A**, 2C**, 2D**, 3*, and 4** shall be performed, as applicable, at least twice during each test run.

(g) The method for determining the emissions of gasoline from a vapor recovery system are delineated in 40 CFR Part 60, Subpart XXX, Section 60.503**. Guidance on conducting the test will be found in the following:
   (1) EPA 340/1-80-012, "Inspection Manual for Control of Volatile Organic Emissions from Gasoline Marketing Operations**.
   (2) EPA 450/2-77-026, "Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals**.

(h) The method for determining volatile organic compound emissions from organic solvent degreasing operations are delineated in EPA 905/2-78-001, "Regulatory Guidance for Control of Volatile Organic Compound Emissions from 15 Categories of Stationary Sources", Section XX.9404, pages 48 and 49*.

(i) The VOC emissions from sources engaged in synthesized pharmaceutical manufacturing (326 IAC 8-5-3), pneumatic rubber tire manufacturing (326 IAC 8-5-4), and graphic arts system (326 IAC 8-5-5) shall be determined using the Method 25 contained in 40 CFR Part 60, Appendix A**.
(j) Compliance with the gap requirement for external floating roof tanks shall be determined using the test procedure specified in the U.S. EPA guideline document EPA 450/2-78-047, "Control of Volatile Organic Emissions from Petroleum Liquid Storage in External Floating Roof Tanks".*

(k) The volume percent solids of a coating shall be calculated using either EPA 450/3-84-019*, "Procedures for Certifying Quantity of VOCs Emitted by Paint, Ink, and Other Coatings", December 1984* and no later amendments or using some other equivalent method. Such equivalent method shall be submitted to U.S. EPA as a SIP revision.

(l) An owner or operator of a source must be able to document that the coating manufacturer used either ASTM D2369-87* or other equivalent method to determine the volatile content of the coatings supplied and must also be able to document that the coating manufacturer used EPA 450/3-84-019* or other equivalent method to calculate the volume percent solids content of the coatings. Such equivalent method shall be submitted to the U.S. EPA as a SIP revision.

(m) The commissioner or U.S. EPA may verify any test results submitted by a source. In the event of any inconsistency between test results, the commissioner's or U.S. EPA's test results will take precedence over results submitted by the source.

*These documents are incorporated by reference. Copies are available for review and copying at the Indiana Department of Environmental Management, Office of Air Quality, Legal Counsel, Indiana Government Center North, Tenth Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

**These documents are incorporated by reference. Copies may be obtained from the Government Printing Office, 732 North Capitol Street NW, Washington, D.C. 20401 or are available for review and copying at the Indiana Department of Environmental Management, Office of Air Quality, Legal Counsel, Indiana Government Center North, Tenth Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Air Pollution Control Board; 326 IAC 8-1-4; filed Mar 10, 1988, 1:20 p.m.: 11 IR 2529; filed Sep 23, 1988, 11:59 a.m.: 12 IR 257; filed May 19, 1990, 5:00 p.m.: 13 IR 1847; filed May 6, 1991, 4:45 p.m.: 14 IR 1714; filed Jun 15, 2001, 12:10 p.m.: 24 IR 3619; errata filed Dec 12, 2002, 3:30 p.m.: 26 IR 1565; filed Aug 26, 2004, 11:30 a.m.: 28 IR 44)

SECTION 4. 326 IAC 8-2-1 IS AMENDED TO READ AS FOLLOWS:

326 IAC 8-2-1 Applicability

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11
Affected: IC 13-12-3-1; IC 13-14-8-3; IC 13-14-8-7; IC 13-17-1-1

Sec. 1. (a) This rule applies to the following:
(1) Facilities existing as of January 1, 1980, of the types described in sections 2 through 8 of this rule and section 11 of this rule, and facilities existing as of November 1, 1980, of the types described in sections 9 through 10 of this rule located in Clark, Elkhart, Floyd, Lake, Marion, Porter, and St. Joseph counties; facilities of the types described in section 12 of this rule, located in Clark, Floyd, Lake, and Porter counties; and facilities as described in section 13 of this rule, located in Clark County; and which that have potential emissions of ninety and seven-tenths (90.7) megagrams (one hundred (100) tons) or greater per year of VOC.
(2) Facilities, construction of which commences after January 1, 1980, of the types described in sections 2 through 8 of this rule and section 11 of this rule, and facilities, construction of which commences after November 1, 1980, of the types described in sections 9 through 10 of this rule located in any county and which that have potential emissions of twenty-two and seven-tenths (22.7) megagrams (twenty-five (25) tons) or greater per year of VOC.
(3) Facilities existing as of July 1, 1990, of the types described in sections 2 through 12 of this rule located in Clark, Elkhart, Floyd, Lake, Marion, Porter, and St. Joseph counties and which that have actual emissions of greater than fifteen (15) pounds of VOC per day before add-on controls.
Facilities, construction of which commences after July 1, 1990, of the types described in sections 2 through 12 of this rule located in any county and which have actual emissions of greater than fifteen (15) pounds of VOC per day before add-on controls.

Surface coating operations, including related cleaning activities, of the types described in sections 2, 5, 6, 7, 9, and 10 of this rule located in Lake County and Porter County with actual VOC emissions of equal to or greater than fifteen (15) pounds per day before add-on controls as specified in sections 2(c), 5(c), 6(c), 7(c), 9(e), and 10(e) of this rule.

(b) Facilities described in subsection (a)(3) shall attain compliance with this rule no later than July 1, 1991.

Air Pollution Control Board; 326 IAC 8-2-1; filed Mar 10, 1988, 1:20 p.m.: 11 IR 2533; errata filed Dec 29, 1988, 2:00 p.m.: 12 IR 1209; filed Apr 18, 1990, 4:55 p.m.: 13 IR 1677; errata filed Jun 18, 1990, 3:42 p.m.: 13 IR 2003; filed Dec 5, 1990, 3:30 p.m.: 14 IR 619; filed May 6, 1991, 4:45 p.m.: 14 IR 1716; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477

SECTION 5. 326 IAC 8-2-2 IS AMENDED TO READ AS FOLLOWS:

326 IAC 8-2-2 Automobile and light duty truck coating operations

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11
Affected: IC 13-12-3-1; IC 13-14-8-3; IC 13-14-8-7; IC 13-17-1-1

Sec. 2. (a) This section establishes emission limitations for automobile and light duty truck surface coating operations, which include all passenger car or passenger car derivatives capable of seating twelve (12) or fewer passengers and any motor vehicle rated at three thousand eight hundred sixty-four (3,864) kilograms (eight thousand five hundred (8,500) pounds) gross weight or less which are designed primarily for the purpose of transportation or are derivatives of such vehicles.

(b) No owner or operator of an automotive or light duty truck assembly plant subject to this section may cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds VOC from the application, flash-off, and curing of prime and topcoat coatings on automobile and light duty truck bodies, hoods, fenders, cargo boxes, doors, and grill opening panels to exceed the following:

1. Twenty-three hundredths (0.23) kilograms kilogram per liter of coating (one and nine-tenths (1.9) pounds per gallon), excluding water, delivered to the applicator from prime application, flash-off area, and oven operations.
2. Thirty-four hundredths (0.34) kilograms kilogram per liter of coating (two and eight-tenths (2.8) pounds per gallon) excluding water, delivered to the applicator from topcoat application, flash-off area, and oven operations.
3. Fifty-eight hundredths (0.58) kilograms kilogram per liter of coating (four and eight-tenths (4.8) pounds per gallon) excluding water, delivered to the applicator from final repair application, flash-off area, and oven operations.

(c) On and after April 1, 2011, the owner or operator of an automotive or light duty truck assembly plant subject to this section where the total actual VOC emissions from all automobile and light duty truck assembly coating operations, including related cleaning activities, are equal to or exceed fifteen (15) pounds per day, before add-on controls, located in Lake County or Porter County, shall comply with the following:

1. VOC limitations for metal automotive or light duty truck assembly coating operations are as follows:

<table>
<thead>
<tr>
<th>Assembly Coating Process</th>
<th>VOC Emission Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrodeposition primer (EDP) operations (including application area, spray/rinse stations, and curing oven)</td>
<td>VOC limit specified in 40 CFR 60.392(a)*</td>
</tr>
<tr>
<td>Primer-surfacer operations (including application area, flash-off area, and oven)</td>
<td>1.44 kilograms per liter of deposited solids (12.0 pounds per gallon) on a daily weighted average basis</td>
</tr>
<tr>
<td>Topcoat operations (including application area, flash-off area, and oven)</td>
<td>1.44 kilograms per liter of deposited solids (12.0 pounds per gallon) on a daily weighted average basis</td>
</tr>
<tr>
<td>Final repair operations</td>
<td>0.58 kilograms per liter of coating (4.8 pounds per gallon)</td>
</tr>
</tbody>
</table>
exceeding water and exempt solvents on a daily weighted average basis or as an occurrence weighted average basis.

| Combined primer-surfacer and topcoat operations | 1.44 kilograms per liter of deposited solids (12.0 pounds per gallon) on a daily weighted average basis |

(2) VOC limitations for metal automotive or light duty truck assembly coating materials are as follows:

<table>
<thead>
<tr>
<th>Material**</th>
<th>VOC Emission Limit (kilograms of VOC per liter excluding water and exempt compounds, as applied)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automobile and light duty truck glass bonding primer</td>
<td>0.90 kg VOC/liter</td>
</tr>
<tr>
<td>Automobile and light duty truck adhesive</td>
<td>0.25 kg VOC/liter</td>
</tr>
<tr>
<td>Automobile and light duty truck cavity wax</td>
<td>0.65 kg VOC/liter</td>
</tr>
<tr>
<td>Automobile and light duty truck sealer</td>
<td>0.65 kg VOC/liter</td>
</tr>
<tr>
<td>Automobile and light duty truck deadener</td>
<td>0.65 kg VOC/liter</td>
</tr>
<tr>
<td>Automobile and light duty truck gasket/gasket sealing material</td>
<td>0.20 kg VOC/liter</td>
</tr>
<tr>
<td>Automobile and light duty truck underbody coating</td>
<td>0.65 kg VOC/liter</td>
</tr>
<tr>
<td>Automobile and light duty truck interior coating</td>
<td>0.65 kg VOC/liter</td>
</tr>
<tr>
<td>Automobile and light duty truck bed liner</td>
<td>0.20 kg VOC/liter</td>
</tr>
<tr>
<td>Automobile and light duty truck weatherstrip adhesive</td>
<td>0.75 kg VOC/liter</td>
</tr>
<tr>
<td>Automobile and light duty truck lubricating wax/compound</td>
<td>0.70 kg VOC/liter</td>
</tr>
</tbody>
</table>

** VOC limits do not apply to materials supplied in containers with a net volume of 16 ounces or less, or a net weight of one pound or less.

(3) Work practices shall be used for storage, mixing, and handling operations for VOC coatings, thinners, and coating-related waste materials. Work practices shall include, but not be limited to, the following:

(A) Store all VOC coatings, thinners, and coating-related materials in closed containers.

(B) Ensure that mixing and storage containers used for VOC coatings, thinners, and coating-related materials are kept closed at all times except when depositing or removing these materials.

(C) Minimize spills of VOC coatings, thinners, and coating-related materials.

(D) Convey VOC coatings, thinners, and coating-related materials from one (1) location to another in closed containers or pipes.

(E) Minimize VOC emissions from cleaning of storage, mixing, and conveying equipment.

(4) Each facility shall develop and implement a work practice plan to minimize VOC emissions from cleaning and from purging of equipment associated with all coating operations for which emission limits are specified in this subsection. The plan shall specify practices and procedures to ensure that VOC emissions from the following operations are minimized:

(A) Vehicle body wiping.

(B) Coating of line purging.

(C) Flushing of coating systems.

(D) Cleaning of spray booth grates.

(E) Cleaning of spray booth walls.

(F) Cleaning of spray booth equipment.

(G) Cleaning external spray booth areas.

(H) Other housekeeping measures.

If a facility has a work practice plan in place as specified in 40 CFR 63, Subpart III*, a facility must add procedures for minimizing nonhazardous air pollutant VOC emissions.

*This document is incorporated by reference. Copies may be obtained from the Government Printing Office, 732 North Capitol Street NW, Washington, D.C. 20401 or are available for review and copying at the Indiana Department of Environmental Management, Office of Legal Counsel, Indiana Government Center North, Thirteenth Floor, 100 North Senate Avenue, Indianapolis, Indiana 46204.

(Air Pollution Control Board; 326 IAC 8-2-2; filed Mar 10, 1988, 1:20 p.m.: 11 IR 2533; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477)

SECTION 6. 326 IAC 8-2-5 IS AMENDED TO READ AS FOLLOWS:

326 IAC 8-2-5 Paper coating operations
Sec. 5. (a) This section establishes emission limitations for web coating or saturation processes of paper, plastic, metal foil, and pressure sensitive tapes and labels regardless of substrate. Excluded from this category are single pieces of equipment that meet the emission limitations contained in 326 IAC 8-5-5 which conduct packaging rotogravure printing, publication rotogravure printing, or flexographic printing operations in line with surface coating lines.

(b) No owner or operator of a coating line subject to this section may cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds VOC in excess of thirty-five hundredths (0.35) kilograms kilogram per liter of coating (two and nine-tenths (2.9) pounds per gallon) excluding water, delivered to the coating applicator from a paper, plastic, metal foil, or pressure sensitive tape/labels coating line.

(c) On and after April 1, 2011, the owner or operator of a coating line subject to this section where the total actual VOC emissions from all paper coating operations, including related cleaning activities, are equal to or exceed fifteen (15) pounds per day located in Lake County or Porter County, before add-on controls, shall comply with the following:

1. For coating lines with potential VOC emissions of twenty-five (25) tons per year or greater the following VOC emission limitations apply:
   (A) Two-tenths (0.2) kilogram VOC/kg solids (two-tenths (0.2) lb VOC/lb solids) applied for pressure sensitive tape and label coating.
   (B) Four-tenths (0.4) kilogram VOC/kg solids (four-tenths (0.4) lb VOC/lb solids) applied for paper, film, and foil coating.

2. As an alternative to subdivision (1), an owner or operator may achieve compliance using a capture and control device that achieves a minimum overall VOC control efficiency of ninety percent (90%).

3. An owner or operator may also achieve compliance by using a combination of subdivisions (1) and (2) that is equivalent to ninety percent (90%) overall control.

4. Work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for cleaning material, and cleaning-related waste materials. Work practices shall include, but not be limited to, the following:
   (A) Store all VOC containing materials in closed containers.
   (B) Ensure that mixing and storage containers used for VOC containing materials are kept closed at all times except when depositing or removing these materials.
   (C) Minimize spills of VOC containing cleaning materials.
   (D) Convey VOC containing cleaning materials from one (1) location to another in closed containers or pipes.
   (E) Minimize VOC emissions from the cleaning of storage, mixing, and conveying equipment.

(Air Pollution Control Board; 326 IAC 8-2-5; filed Mar 10, 1988, 1:20 p.m.: 11 IR 2534; filed Sep 23, 1988, 11:59 a.m.: 12 IR 258; filed Jan 16, 1990, 4:00 p.m.: 13 IR 1017; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477)

SECTION 7. 326 IAC 8-2-6 IS AMENDED TO READ AS FOLLOWS:

326 IAC 8-2-6 Metal furniture coating operations

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11
Affected: IC 13-12-3-1; IC 13-14-8-3; IC 13-14-8-7; IC 13-17-1-1

Sec. 6. (a) This section is applicable to surface coating of any furniture made of metal or any metal part which that will be assembled with other metal, wood, fabric, plastic, or glass parts to form a furniture piece.

(b) No owner or operator of a metal furniture coating line subject to this section may cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds VOC in excess of thirty-six hundredths (0.36) kilograms kilogram per liter of coating (three and zero-tenths (3.0) pounds per gallon) excluding water, delivered to the coating applicator from prime and topcoat or single coat operations.
(c) On and after April 1, 2011, the owner or operator of a metal furniture coating line subject to this section where the total actual VOC emissions from all metal furniture coating operations, including related cleaning activities, are equal to or exceed fifteen (15) pounds per day, before add-on controls, located in Lake County or Porter County, shall comply with the following:

(1) VOC limitations for metal furniture coating according to either of the following:
   (A) Emission limits in terms of mass of VOC per volume of coating:

<table>
<thead>
<tr>
<th>Coating Type</th>
<th>Maximum VOC Content</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Baked</td>
<td>Air Dried</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kilograms/liter (pounds/gallon) of coating, excluding water, as applied</td>
<td>Kilograms/liter (pounds/gallon) of coating, excluding water, as applied</td>
<td></td>
</tr>
<tr>
<td>General, one component</td>
<td>0.275 (2.3)</td>
<td>0.275 (2.3)</td>
<td></td>
</tr>
<tr>
<td>General, multicomponent</td>
<td>0.275 (2.3)</td>
<td>0.340 (2.8)</td>
<td></td>
</tr>
<tr>
<td>Extreme high gloss</td>
<td>0.360 (3.0)</td>
<td>0.340 (2.8)</td>
<td></td>
</tr>
<tr>
<td>Extreme performance</td>
<td>0.360 (3.0)</td>
<td>0.420 (3.5)</td>
<td></td>
</tr>
<tr>
<td>Heat resistant</td>
<td>0.360 (3.0)</td>
<td>0.420 (3.5)</td>
<td></td>
</tr>
<tr>
<td>Metallic</td>
<td>0.420 (3.5)</td>
<td>0.420 (3.5)</td>
<td></td>
</tr>
<tr>
<td>Pretreatment coatings</td>
<td>0.420 (3.5)</td>
<td>0.420 (3.5)</td>
<td></td>
</tr>
<tr>
<td>Solar absorbent</td>
<td>0.360 (3.0)</td>
<td>0.420 (3.5)</td>
<td></td>
</tr>
</tbody>
</table>

   (B) Emission limits in terms of mass of VOC per volume of coating solids, as applied:

<table>
<thead>
<tr>
<th>Coating Type</th>
<th>Maximum VOC Content</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Baked</td>
<td>Air Dried</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kilograms/liter (pounds/gallon) of coating solids, as applied</td>
<td>Kilograms/liter (pounds/gallon) of coating solids, as applied</td>
<td></td>
</tr>
<tr>
<td>General, one component</td>
<td>0.40 (3.3)</td>
<td>0.40 (3.3)</td>
<td></td>
</tr>
<tr>
<td>General, multicomponent</td>
<td>0.40 (3.3)</td>
<td>0.55 (4.5)</td>
<td></td>
</tr>
<tr>
<td>Extreme high gloss</td>
<td>0.61 (5.1)</td>
<td>0.55 (4.5)</td>
<td></td>
</tr>
<tr>
<td>Extreme performance</td>
<td>0.61 (5.1)</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
<tr>
<td>Heat resistant</td>
<td>0.61 (5.1)</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
<tr>
<td>Metallic</td>
<td>0.80 (6.7)</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
<tr>
<td>Pretreatment coatings</td>
<td>0.80 (6.7)</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
<tr>
<td>Solar absorbent</td>
<td>0.61 (5.1)</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
</tbody>
</table>

(2) As an alternative to subdivision (1), an owner or operator may achieve compliance with this subsection by using a capture and control device that achieves a minimum overall VOC control efficiency of ninety percent (90%).

(3) An owner or operator may also achieve compliance by using a combination of subdivisions (1)(B) and (2) that is equivalent to ninety percent (90%) overall control.

(4) One (1) or a combination of the following equipment shall be used for coating application:
   (A) Electrostatic equipment.
   (B) High volume low-pressure (HVLP) spray equipment.
   (C) Flow coating.
   (D) Roller coating.
   (E) Dip coating, including electrodeposition.
   (F) Other coating application method capable of achieving a transfer efficiency equivalent to or better than achieved by HVLP spraying.

(5) Work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for cleaning material, coating related materials, and cleaning-related waste materials. Work practices shall include, but not be limited to, the following:
   (A) Store all VOC containing materials in closed containers.
   (B) Ensure that mixing and storage containers used for VOC containing materials are kept closed at all times except when depositing or removing these materials.
   (C) Minimize spills of VOC containing materials.
   (D) Convey VOC containing materials from one (1) location to another in closed containers or pipes.
   (E) Minimize VOC emissions from the cleaning of storage, mixing, and conveying equipment.
(d) The following coating types are exempt from the emission limitations in this section:
(1) Stencil coatings.
(2) Safety-indicating coatings.
(3) Solid film lubricants.
(4) Electric-insulating and thermal-conducting coatings.
(5) Touch-up and repair coatings.
(6) Hand-held aerosol can coatings.

(Air Pollution Control Board; 326 IAC 8-2-6; filed Mar 10, 1988, 1:20 p.m.: 11 IR 2534; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477)

SECTION 8. 326 IAC 8-2-7 IS AMENDED TO READ AS FOLLOWS:

326 IAC 8-2-7 Large appliance coating operations

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11
Affected: IC 13-12-3-1; IC 13-14-8-3; IC 13-14-8-7; IC 13-17-1-1

Sec. 7. (a) This section is applicable to the surface coating of doors, cases, lids, panels, and interior support parts of the following residential and commercial products:
(1) Washers.
(2) Dryers.
(3) Ranges.
(4) Refrigerators.
(5) Freezers.
(6) Water heaters.
(7) Dishwashers.
(8) Trash compactors.
(9) Air conditioners, and
(10) Other similar products.

(b) No owner or operator of a large appliance coating line subject to this section may cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds VOC in excess of thirty-four hundredths kilograms kilogram per liter of coating (two and eight-tenths pounds per gallon) excluding water, delivered to the coating applicator from prime, single, or topcoat coating operations.

(c) On and after April 1, 2011, the owner or operator of a large appliance coating line subject to this section where the total actual VOC emissions from all large appliance coating operations, including related cleaning activities, are equal to or exceed fifteen (15) pounds per day, before add-on controls, located in Lake County or Porter County, shall comply with the following:
(1) VOC limitations for large appliance coating according to either of the following:
(A) Emission limits in terms of mass of VOC per volume of coating:

<table>
<thead>
<tr>
<th>Coating Type</th>
<th>Maximum VOC Content</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Baked</td>
</tr>
<tr>
<td></td>
<td>Kilograms/liter (pounds/gallon) of coating, excluding water, as applied</td>
</tr>
<tr>
<td>General, one component</td>
<td>0.275 (2.3)</td>
</tr>
<tr>
<td>General, multicomponent</td>
<td>0.275 (2.3)</td>
</tr>
<tr>
<td>Extreme high gloss</td>
<td>0.360 (3.0)</td>
</tr>
<tr>
<td>Extreme performance</td>
<td>0.360 (3.0)</td>
</tr>
<tr>
<td>Heat resistant</td>
<td>0.360 (3.0)</td>
</tr>
<tr>
<td>Metallic</td>
<td>0.420 (3.5)</td>
</tr>
<tr>
<td>Pretreatment coatings</td>
<td>0.420 (3.5)</td>
</tr>
<tr>
<td>Solar absorbent</td>
<td>0.360 (3.0)</td>
</tr>
</tbody>
</table>

(B) Emission limits in terms of mass of VOC per volume of coating solids, as applied:
<table>
<thead>
<tr>
<th>Coating Type</th>
<th>Maximum VOC Content</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Baked</td>
<td>Air Dried</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kilograms/liter</td>
<td>Kilograms/liter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(pounds/gallon)</td>
<td>(pounds/gallon)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>of coating solids, as applied</td>
<td>of coating solids, as applied</td>
<td></td>
</tr>
<tr>
<td>General, one component</td>
<td>0.40 (3.3)</td>
<td>0.40 (3.3)</td>
<td></td>
</tr>
<tr>
<td>General, multicomponent</td>
<td>0.40 (3.3)</td>
<td>0.55 (4.5)</td>
<td></td>
</tr>
<tr>
<td>Extreme high gloss</td>
<td>0.61 (5.1)</td>
<td>0.55 (4.5)</td>
<td></td>
</tr>
<tr>
<td>Extreme performance</td>
<td>0.61 (5.1)</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
<tr>
<td>Heat resistant</td>
<td>0.61 (5.1)</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
<tr>
<td>Metallic</td>
<td>0.80 (6.7)</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
<tr>
<td>Pretreatment coatings</td>
<td>0.80 (6.7)</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
<tr>
<td>Solar absorbent</td>
<td>0.61 (5.1)</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
</tbody>
</table>

(2) As an alternative to subdivision (1), an owner or operator may achieve compliance with this subsection by using a capture and control device that achieves a minimum overall VOC control efficiency of ninety percent (90%).
(3) An owner or operator may also achieve compliance by using a combination of subdivisions (1) and (2) that is equivalent to ninety percent (90%) overall control.
(4) One (1) or a combination of the following equipment shall be used for coating application:
(A) Electrostatic equipment.
(B) High volume low-pressure (HVLP) spray equipment.
(C) Flow coating.
(D) Roller coating.
(E) Dip coating, including electrodeposition.
(F) Other coating application method capable of achieving a transfer efficiency equivalent or better than achieved by HVLP spraying.
(5) Work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for cleaning material, coating materials, thinners, and cleaning-related waste materials. Work practices shall include, but not be limited to, the following:
(A) Store all VOC containing materials in closed containers.
(B) Ensure that mixing and storage containers used for VOC containing materials are kept closed at all times except when depositing or removing these materials.
(C) Minimize spills of VOC containing cleaning materials.
(D) Convey VOC containing cleaning materials from one (1) location to another in closed containers or pipes.
(E) Minimize VOC emissions from the cleaning of storage, mixing, and conveying equipment.

(6) (d) The following exemptions apply in this section:
(1) The use of quick-drying lacquers for repair of scratches and nicks that occur during assembly are exempt from the above requirements (limited to one (1) gallon in an eight (8) hour period).
(2) The following coating types are exempt from the emission limitations in this section:
(A) Stencil coatings.
(B) Safety-indicating coatings.
(C) Solid film lubricants.
(D) Electric-insulating and thermal-conducting coatings.
(E) Touch-up and repair coatings.
(F) Hand-held aerosol can coatings.

(Air Pollution Control Board; 326 IAC 8-2-7; filed Mar 10, 1988, 1:20 p.m.: 11 IR 2534; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477)

SECTION 9. 326 IAC 8-2-9 IS AMENDED TO READ AS FOLLOWS:

326 IAC 8-2-9 Miscellaneous metal and plastic parts coating operations

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11
Affected: IC 13-15; IC 13-17
Sec. 9. (a) This section is applicable to the surface coating of the following:

1. Large and small farm machinery.
2. Small household appliances.
3. Office equipment.
4. Commercial and industrial machinery and equipment. Any other industrial category which coats Fabricated metal parts or products. under the Standard Industrial Classification Code of major groups #33, #34, #35, #36, #37, #38, and #39.
5. Molded plastic parts.
6. Automotive or transportation equipment.
7. Interior or exterior automotive parts.
8. Construction equipment.
11. Toys.
12. Recreational vehicles.
13. Pleasure craft (recreational boats).
15. Railroad cars.
17. Lawn and garden equipment.
19. Laboratory and medical equipment.
20. Electronic equipment.
21. Steel drums.
22. Metal pipes.

(b) This section is not applicable to the surface coating of the following metal parts and products or to the following types of coating except as indicated in subsection (c):

1. Any metal parts or products limited by other sections of this rule.
2. Exterior of airplanes.
3. Automobile refinishing.
4. Customized top coating of automobiles and trucks, if production is less than thirty-five (35) vehicles per day.
5. Exterior of marine vessels.
7. The application of adhesives or preparation of adhesives.
8. Lubricants used to prevent sticking of internally moving parts.
10. The application of coatings to burial caskets (Standard Industrial Classification Code 3995) if the source is not located in or adjacent to:
   - a county designated as nonattainment for ozone; or
   - Clark County or Floyd County.

(c) Commencing July 1, 1991, the operations described in subsection (b)(6) through (b)(9) shall comply with the requirements of this section.

(d) No owner or operator of a facility engaged in the surface coating of miscellaneous metal parts and products may cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds VOC in excess of the following:

1. Fifty-two hundredths (0.52) kilogram per liter (four and three-tenths (4.3) pounds per gallon) of coating, excluding water, delivered to a coating applicator that applies clear coatings. A clear coating is a coating that:
   - lacks color or opacity; and
   - is transparent and uses the undercoat as a reflectant base or undertone color.
2. Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating, excluding water, delivered to a coating applicator in a coating application system that is air dried or forced warm air dried at temperatures up to ninety (90) degrees Celsius (one hundred ninety-four (194) degrees Fahrenheit).
3. Forty-two hundredths (0.42) kilogram per liter (three and five-tenths (3.5) pounds per gallon) of coating, excluding water, delivered to a coating applicator that applies extreme performance coatings. Extreme
performance coatings are coatings designed for exposure to:
(A) temperatures consistently above ninety-five (95) degrees Celsius;
(B) detergents;
(C) abrasive or scouring agents;
(D) solvents;
(E) corrosive atmospheres;
(F) outdoor weather at all times; or
(G) similar environmental conditions.

(4) Thirty-six hundredths (0.36) kilogram per liter (three (3) pounds per gallon) of coating, excluding water, delivered to a coating applicator for all other coatings and coating application systems.

(e) On and after April 1, 2011, the owner or operator engaged in the surface coating of miscellaneous metal or plastic parts and products subject to this section where the total actual VOC emissions from all miscellaneous metal or plastic parts or products coating operations, including related cleaning activities, are equal to or exceed fifteen (15) pounds per day, before add-on controls, located in Lake County or Porter County, shall comply with the following:
(1) VOC limitations for surface coating of miscellaneous metal and plastic parts and products according to one (1) of the following:
(A) VOC limits based on low-VOC coatings as follows:

<table>
<thead>
<tr>
<th>Coating Category</th>
<th>Metal Parts and Products</th>
<th>Maximum VOC Content</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Air Dried</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kilograms/liter (pounds/gallon) of coating, excluding water, as applied</td>
</tr>
<tr>
<td>General, one component</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General, multicomponent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Military specification</td>
<td></td>
<td>0.34 (2.8)</td>
</tr>
<tr>
<td>Drum coating, new, exterior</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Camouflage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electric-insulating varnish</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Etching filler</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metallic</td>
<td></td>
<td>0.42 (3.5)</td>
</tr>
<tr>
<td>Mold-seal</td>
<td></td>
<td>0.42 (3.5)</td>
</tr>
<tr>
<td>Pan backing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pretreatment coatings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silicone release</td>
<td></td>
<td>0.74 (6.2)</td>
</tr>
<tr>
<td>Vacuum-metalizing</td>
<td></td>
<td>0.42 (3.5)</td>
</tr>
<tr>
<td>Drum coating, new, interior</td>
<td></td>
<td>0.50 (4.2)</td>
</tr>
<tr>
<td>Drum coating, reconditioned, exterior</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extreme high-gloss</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extreme performance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heat-resistant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repair and touch-up</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solar-absorbent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High performance architectural</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prefabricated architectural one or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>multicomponent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drum coating, reconditioned, interior</td>
<td></td>
<td>0.50 (4.2)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coating Category</th>
<th>Plastic Parts and Products</th>
<th>Kilograms/liter (pounds/gallon) of coating, excluding water, as applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>General, one component</td>
<td></td>
<td>0.28 (2.3)</td>
</tr>
<tr>
<td>General, multicomponent</td>
<td></td>
<td>0.42 (3.5)</td>
</tr>
<tr>
<td>Coating Category</td>
<td>Kilograms/liter (pounds/gallon) of coating, excluding water, as applied</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Electric dissipating coatings and shock free coatings</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
<tr>
<td>Extreme performance</td>
<td>0.42 (3.5) (two-pack coatings)</td>
<td></td>
</tr>
<tr>
<td>Metallic</td>
<td>0.42 (3.5)</td>
<td></td>
</tr>
<tr>
<td>Military specification</td>
<td>0.34 (2.8) (one pack)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.42 (3.5) (two pack)</td>
<td></td>
</tr>
<tr>
<td>Mold seal</td>
<td>0.76 (6.3)</td>
<td></td>
</tr>
<tr>
<td>Multicolored coatings</td>
<td>0.68 (5.7)</td>
<td></td>
</tr>
<tr>
<td>Optical coatings</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
<tr>
<td>Vacuum-metalizing</td>
<td>0.80 (6.7)</td>
<td></td>
</tr>
</tbody>
</table>

### Automotive and Transportation Plastic Parts Coatings*

<table>
<thead>
<tr>
<th>Coating Category</th>
<th>Kilograms/liter (pounds/gallon) of coating, excluding water, as applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>High bake coatings – interior and exterior parts</td>
<td></td>
</tr>
<tr>
<td>Flexible primer</td>
<td>0.54 (4.5)</td>
</tr>
<tr>
<td>Nonflexible primer</td>
<td>0.42 (3.5)</td>
</tr>
<tr>
<td>Base coat</td>
<td>0.52 (4.3)</td>
</tr>
<tr>
<td>Clear coat</td>
<td>0.48 (4.0)</td>
</tr>
<tr>
<td>Nonbasecoat/clear coat</td>
<td>0.52 (4.3)</td>
</tr>
<tr>
<td>Low bake/air dried coatings – exterior parts</td>
<td></td>
</tr>
<tr>
<td>Primers</td>
<td>0.58 (4.8)</td>
</tr>
<tr>
<td>Base coat</td>
<td>0.60 (5.0)</td>
</tr>
<tr>
<td>Clear coat</td>
<td>0.54 (4.5)</td>
</tr>
<tr>
<td>Nonbasecoat/clear coat</td>
<td>0.60 (5.0)</td>
</tr>
<tr>
<td>Low bake/air dried coatings – interior parts</td>
<td></td>
</tr>
<tr>
<td>Touch-up and repair</td>
<td>0.62 (5.2)</td>
</tr>
</tbody>
</table>

*For red, yellow, and black automotive coatings, except touch-up and repair coatings, the limit is determined by multiplying the appropriate limit in this table by 1.15

### Business Machine Plastic Parts Coatings

<table>
<thead>
<tr>
<th>Coating Category</th>
<th>Kilograms/liter (pounds/gallon) of coating, excluding water, as applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primers</td>
<td>0.35 (2.9)</td>
</tr>
<tr>
<td>Topcoat</td>
<td>0.35 (2.9)</td>
</tr>
<tr>
<td>Texture coat</td>
<td>0.35 (2.9)</td>
</tr>
<tr>
<td>Fog coat</td>
<td>0.26 (2.2)</td>
</tr>
<tr>
<td>Touch-up and repair</td>
<td>0.35 (2.9)</td>
</tr>
</tbody>
</table>

### Pleasure Craft Surface Coating

<table>
<thead>
<tr>
<th>Coating Category</th>
<th>Kilograms/liter (pounds/gallon) of coating, excluding water, as applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extreme high gloss topcoat</td>
<td>0.49 (4.1)</td>
</tr>
<tr>
<td>High gloss topcoat</td>
<td>0.42 (3.5)</td>
</tr>
<tr>
<td>Pretreatment wash primers</td>
<td>0.78 (6.5)</td>
</tr>
<tr>
<td>Finish primer surfacer</td>
<td>0.42 (3.5)</td>
</tr>
<tr>
<td>High build primer surfacer</td>
<td>0.34 (2.8)</td>
</tr>
<tr>
<td>Aluminum substrate antifoulant coating</td>
<td>0.56 (4.7)</td>
</tr>
<tr>
<td>Other substrate antifoulant coating</td>
<td>0.33 (2.8)</td>
</tr>
<tr>
<td>All other pleasure craft surface coatings for metal or plastic</td>
<td>0.42 (3.5)</td>
</tr>
</tbody>
</table>

### Motor Vehicle Materials

<table>
<thead>
<tr>
<th>Coating Category</th>
<th>Kilograms/liter (pounds/gallon) of coating, excluding water, as applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor vehicle cavity wax</td>
<td>0.65 (5.4)</td>
</tr>
</tbody>
</table>
Motor vehicle sealer 0.65 (5.4)
Motor vehicle deadener 0.65 (5.4)
Motor vehicle gasket/gasket sealing material 0.20 (1.7)
Motor vehicle underbody coating 0.65 (5.4)
Motor vehicle trunk interior coating 0.65 (5.4)
Motor vehicle bed liner 0.20 (1.7)
Motor vehicle lubricating wax/compound 0.70 (5.8)

(B) VOC limits based on low-VOC coatings and add-on controls (VOC per volume solids), except for motor vehicle materials, as follows:

<table>
<thead>
<tr>
<th>Metal Part and Products</th>
<th>Maximum VOC Content</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kilograms/liter (pounds/gallon) of solids, excluding water, as applied</td>
</tr>
<tr>
<td>Coating Category</td>
<td>Air Dried</td>
</tr>
<tr>
<td>General, one component</td>
<td></td>
</tr>
<tr>
<td>General, multicomponent</td>
<td>0.54 (4.52)</td>
</tr>
<tr>
<td>Military specification</td>
<td></td>
</tr>
<tr>
<td>Drum coating, new, exterior</td>
<td></td>
</tr>
<tr>
<td>Camouflage</td>
<td></td>
</tr>
<tr>
<td>Electric-insulating varnish</td>
<td></td>
</tr>
<tr>
<td>Etching filler</td>
<td></td>
</tr>
<tr>
<td>High temperature</td>
<td></td>
</tr>
<tr>
<td>Metallic</td>
<td></td>
</tr>
<tr>
<td>Mold-seal</td>
<td>0.80 (6.67)</td>
</tr>
<tr>
<td>Pan backing</td>
<td></td>
</tr>
<tr>
<td>Pretreatment coatings</td>
<td></td>
</tr>
<tr>
<td>Silicone release</td>
<td></td>
</tr>
<tr>
<td>Vacuum-metalizing</td>
<td></td>
</tr>
<tr>
<td>Drum coating, new, interior</td>
<td></td>
</tr>
<tr>
<td>Drum coating, reconditioned, exterior</td>
<td></td>
</tr>
<tr>
<td>Extreme high-gloss</td>
<td></td>
</tr>
<tr>
<td>Extreme performance</td>
<td>0.80 (6.67)</td>
</tr>
<tr>
<td>Heat-resistant</td>
<td></td>
</tr>
<tr>
<td>Solar-absorbent</td>
<td></td>
</tr>
<tr>
<td>High performance architectural</td>
<td>4.56 (38.0)</td>
</tr>
<tr>
<td>Prefabricated architectural one or multicomponent</td>
<td>0.80 (6.67)</td>
</tr>
<tr>
<td>Drum coating, reconditioned, interior</td>
<td>1.17 (9.78)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plastic Parts and Products</th>
<th>Kilograms/liter (pounds/gallon) of solids, excluding water, as applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating Category</td>
<td></td>
</tr>
<tr>
<td>General, one component</td>
<td>0.40 (3.35)</td>
</tr>
<tr>
<td>General, multicomponent</td>
<td>0.80 (6.67)</td>
</tr>
<tr>
<td>Electric dissipating coatings and shock free coatings</td>
<td>8.96 (74.7)</td>
</tr>
<tr>
<td>Extreme performance</td>
<td>0.80 (6.67) (two-pack coatings)</td>
</tr>
<tr>
<td>Metallic</td>
<td>0.80 (6.67)</td>
</tr>
<tr>
<td>Military specification</td>
<td>0.54 (4.52) (one pack)</td>
</tr>
<tr>
<td></td>
<td>0.80 (6.67) (two pack)</td>
</tr>
<tr>
<td>Mold seal</td>
<td>5.24 (43.7)</td>
</tr>
<tr>
<td>Multicolored coatings</td>
<td>3.04 (25.3)</td>
</tr>
<tr>
<td>Optical coatings</td>
<td>8.96 (74.7)</td>
</tr>
</tbody>
</table>
Vacuum-metalizing | 8.96 (74.7)

### Automotive and Transportation Plastic Parts Coatings*

<table>
<thead>
<tr>
<th>Coating Category</th>
<th>Kilograms/liter (pounds/gallon) of solids, excluding water, as applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>High bake coatings – interior and exterior parts</td>
<td></td>
</tr>
<tr>
<td>Flexible primer</td>
<td>1.39 (11.58)</td>
</tr>
<tr>
<td>Nonflexible primer</td>
<td>0.80 (6.67)</td>
</tr>
<tr>
<td>Base coat</td>
<td>1.24 (10.34)</td>
</tr>
<tr>
<td>Clear coat</td>
<td>1.05 (8.76)</td>
</tr>
<tr>
<td>Nonbasecoat/clear coat</td>
<td>1.24 (10.34)</td>
</tr>
<tr>
<td>Low bake/air dried coatings – exterior parts</td>
<td></td>
</tr>
<tr>
<td>Primers</td>
<td>1.66 (13.80)</td>
</tr>
<tr>
<td>Base coat</td>
<td>1.87 (15.59)</td>
</tr>
<tr>
<td>Clear coat</td>
<td>1.39 (11.58)</td>
</tr>
<tr>
<td>Nonbasecoat/clear coat</td>
<td>1.87 (15.59)</td>
</tr>
<tr>
<td>Low bake/air dried coatings – interior parts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.87 (15.59)</td>
</tr>
<tr>
<td>Touch-up and repair coatings</td>
<td>2.13 (17.72)</td>
</tr>
</tbody>
</table>

*For red, yellow, and black automotive coatings, except touch-up and repair coatings, the limit is determined by multiplying the appropriate limit in this table by 1.15

### Business Machine Plastic Parts Coatings

<table>
<thead>
<tr>
<th>Coating Category</th>
<th>Kilograms/liter (pounds/gallon) of solids, excluding water, as applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primers</td>
<td>0.57 (4.80)</td>
</tr>
<tr>
<td>Topcoat</td>
<td>0.57 (4.80)</td>
</tr>
<tr>
<td>Texture coat</td>
<td>0.57 (4.80)</td>
</tr>
<tr>
<td>Fog coat</td>
<td>0.38 (3.14)</td>
</tr>
<tr>
<td>Touch-up and repair</td>
<td>0.57 (4.80)</td>
</tr>
</tbody>
</table>

### Pleasure Craft Surface Coating

<table>
<thead>
<tr>
<th>Coating Category</th>
<th>Kilograms/liter (pounds/gallon) of solids, excluding water, as applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extreme high gloss topcoat</td>
<td>1.10 (9.2)</td>
</tr>
<tr>
<td>High gloss topcoat</td>
<td>0.80 (6.7)</td>
</tr>
<tr>
<td>Pretreatment wash primers</td>
<td>6.67 (55.6)</td>
</tr>
<tr>
<td>Finish primer surfacer</td>
<td>0.80 (6.7)</td>
</tr>
<tr>
<td>High build primer surfacer</td>
<td>0.59 (4.6)</td>
</tr>
<tr>
<td>Aluminum substrate antifoulant coating</td>
<td>1.53 (12.8)</td>
</tr>
<tr>
<td>Other substrate antifoulant coating</td>
<td>0.53 (4.4)</td>
</tr>
<tr>
<td>All other pleasure craft surface coatings for metal or plastic</td>
<td>0.80 (6.7)</td>
</tr>
</tbody>
</table>

(2) One (1) or a combination of the following equipment shall be used for coating application, unless achieving compliance using an add-on control device under subdivision (3) or exempt under subdivision (5):  
(A) Electrostatic equipment.  
(B) High volume low-pressure (HVLP) spray equipment.  
(C) Flow coating.  
(D) Roller coating.  
(E) Dip coating, including electrodeposition.  
(F) Airless spray.  
(G) Air-assisted airless spray.  
(H) Other coating application method capable of achieving a transfer efficiency equivalent or better than achieved by HVLP spraying.

(3) An owner or operator may achieve compliance with this subsection by using a capture and control device that achieves a minimum overall VOC control efficiency of ninety percent (90%) instead of using low-VOC coatings and application methods under subdivision (2).
(4) The following coating types are exempt from the metal parts coating VOC limits in this subsection:
   (A) Stencil coatings.
   (B) Safety-indicating coatings.
   (C) Solid film lubricants.
   (D) Electric-insulating and thermal-conducting coatings.
   (E) Magnetic data storage disk coatings.
   (F) Plastic extruded onto metal parts to form a coating.

(5) The following types of coatings and coating operations are exempt from the plastic parts VOC limits in this subsection:
   (A) Touch-up and repair coatings.
   (B) Stencil coatings applied on clear or transparent substrates.
   (C) Clear or translucent coatings.
   (D) Coatings applied at a paint manufacturing facility while conducting performance tests on the coatings.
   (E) Any individual coating category used in volumes less than fifty (50) gallons in any one (1) year, if substitute compliant coatings are not available, provided that the total usage of all such coatings does not exceed two hundred (200) gallons per year, per facility.
   (F) Reflective coating applied to highway cones.
   (G) Mask coatings that are less than five-tenths (0.5) millimeter thick (dried) and the area coated is less than twenty-five (25) square inches.
   (H) Electromagnetic interference or radio frequency interference (EMI or RFI) shielding coatings.
   (I) Heparin-benzalkonium chloride (HBAC) containing coatings applied to medical devices, provided that the total usage of all such coatings does not exceed one hundred (100) gallons per year, per plastic parts coating operation.

(6) The following types of coatings and operations are exempt from the automotive or transportation and business machine plastic part coating VOC limits:
   (A) Texture coatings.
   (B) Vacuum metalizing coatings.
   (C) Gloss reducers.
   (D) Texture topcoats.
   (E) Adhesion primers.
   (F) Electrostatic preparation coatings.
   (G) Resist coatings.
   (H) Stencil coatings.

(7) Extreme high gloss coatings are exempt from the pleasure craft VOC limits.

(8) The application method requirements in subdivision (2) do not apply to the following:
   (A) Metal parts touch-up coatings, repair coatings, and textured finishes.
   (B) Plastic parts airbrush operations using five (5) gallons or less per year of coating.

(e) If more than one (1) emission limitation in subsection (d) applies to a specific coating, then the least stringent emission limitation shall be applied.

(f) Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

(g) Work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include, but not be limited to, the following:
   (1) Store all VOC containing coatings, thinners, coating related waste, and cleaning materials in closed containers.
   (2) Ensure that mixing and storage containers used for VOC containing coatings, thinners, coating related waste, and cleaning materials are kept closed at all times except when depositing or removing these materials.
   (3) Minimize spills of VOC containing coatings, thinners, coating related waste, and cleaning materials.
   (4) Convey VOC containing coatings, thinners, coating related waste, and cleaning materials from one location to another in closed containers or pipes.
   (5) Minimize VOC emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.
SECTION 10. 326 IAC 8-2-10 IS AMENDED TO READ AS FOLLOWS:

**326 IAC 8-2-10 Flat wood panels; manufacturing operations**

**Authority:** IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

**Affected:** IC 13-12-3-1; IC 13-14-8-3; IC 13-14-8-7; IC 13-17-1-1

Sec. 10. (a) This section establishes the emission limitations for flat wood manufacturing and surface finishing of the following:

1. Printed interior panels made of hardwood plywood and thin particle board. "Printed interior panels" means panels whose grain or natural surface is obscured by fillers and basecoats upon which a simulated grain or decorative pattern is printed. "Hardwood particleboard" is a manufactured board one-fourth (1/4) inch or less in thickness made of individual wood particles that have been coated with a binder and formed into flat sheets by pressure.

2. Natural finish hardwood plywood panels. "Natural finish hardwood plywood panels" means panels whose original grain pattern is enhanced by essentially transparent finishes frequently supplemented by fillers and toners.

3. Hardboard paneling with Class II finishes. "Hardboard" is a panel manufactured primarily from inter-felted ligno-cellulosic fibers that are consolidated under heat and pressure in a hot press. "Class II finish" means finishes that meet the specifications of Voluntary Product Standard PS-59-73 as approved by the American National Standards Institute.

4. Exterior siding. Exterior siding may be made of solid wood, hardboard, or waferboard.

5. Tileboard. "Tileboard" means a premium interior wall paneling product made of hardboard that is used in high moisture areas of the home, such as kitchens and bathrooms.

(b) This section does not apply to coating lines used solely in the manufacture of exterior siding, tileboard, or particleboard used as a furniture component. "Tileboard" means paneling that has a colored waterproof surface coating.

(c) If a coating line is used both for coating paneling subject to this section as described in subsection (a) of this section and for paneling exempt from this section as described in subsection (b) of this section, then any control equipment installed on the line shall be operated at all times when the line is in use.

(d) No owner or operator of a flatwood manufacturing facility subject to this section shall emit volatile organic compounds VOC from a coating line in excess of the following:

1. Two and nine-tenths (2.9) kg per one hundred (100) square meters of coated finished product (6.0 lb/1,000 sq ft) from printed interior panels, regardless of the number of coats applied.

2. Five and eight-tenths (5.8) kg per one hundred (100) square meters of coated finished product (12.0 lb/1,000 sq ft) from natural finish hardwood plywood panels, regardless of the number of coats applied.

3. Four and eight-tenths (4.8) kg per one hundred (100) square meters of coated finished product (10.0 lb/1,000 sq ft) from Class II finishes on hardboard panels, regardless of the number of coats applied.

(e) On and after April 1, 2011, the owner or operator of a flatwood manufacturing facility subject to this section where the total actual VOC emissions from all flatwood paneling coating lines, including related cleaning activities, are equal to or exceed fifteen (15) pounds per day, before add-on controls, located in Lake County or Porter County, shall comply with the following:

1. VOC emission limitations as follows:

<table>
<thead>
<tr>
<th>Paneling Category</th>
<th>lb of VOC per gallon (grams VOC per liter) of surface coating, ink, or adhesive (excluding water and exempt compounds)</th>
<th>lb VOC per gallon solids (grams VOC per liter solids)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printing interior panels made of hardwood, plywood, or thin particleboard</td>
<td>2.1 (250)</td>
<td>2.9 (350)</td>
</tr>
</tbody>
</table>
(2) An owner or operator may achieve compliance with this subsection by using a capture and control device that achieves a minimum overall VOC control efficiency of ninety percent (90%).

(3) As an alternative to subdivision (1), an owner or operator may also achieve compliance by using a combination of subdivisions (1) and (2) that is equivalent to ninety percent (90%) overall control.

(4) Work practices shall be used to minimize VOC emissions from mixing operations, storage tanks, and other containers, and handling operations for coatings, thinners, cleaning materials, and waste materials. Work practices shall include the following, at a minimum:

(A) Store all VOC containing materials in closed containers.

(B) Ensure that mixing and storage containers used for VOC containing materials are kept closed at all times except when depositing or removing these materials.

(C) Minimize spills of VOC containing cleaning materials.

(D) Convey VOC containing cleaning materials from one (1) location to another in closed containers or pipes.

(E) Minimize VOC emissions from the cleaning of storage, mixing, and conveying equipment.

(Air Pollution Control Board; 326 IAC 8-2-10; filed Mar 10, 1988, 1:20 p.m.; 11 IR 2535; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477)

SECTION 11. 326 IAC 8-5-5 IS AMENDED TO READ AS FOLLOWS:

326 IAC 8-5-5 Graphic arts operations

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-12-3-1; IC 13-14-8-1; IC 13-14-8-2; IC 13-17-1

Sec. 5. (a) This section applies to packaging rotogravure, publication rotogravure, and flexographic printing sources as follows:

(1) Sources existing as of November 1, 1980, whose potential emissions of volatile organic compounds VOC are greater than ninety (90) megagrams per year (one hundred (100) tons per year).

(2) All new (after November 1, 1980) sources, located anywhere in the state, with potential emissions of twenty-two and seven-tenths (22.7) megagrams (twenty-five (25) tons) per year or more volatile organic compounds VOC.

(3) As of October 1, 1993, all sources located in Lake County or Porter County as follows:

(A) Sources whose potential emissions of volatile organic compounds VOC are greater than or equal to twenty-two and seven-tenths (22.7) megagrams (twenty-five (25) tons) per year are subject to the requirements of this section and the requirements of 326 IAC 8-1-9 through 326 IAC 8-1-12, as applicable.

(B) Sources whose potential emissions of volatile organic compounds VOC are less than twenty-five (25) tons per year but greater than or equal to ten (10) tons per year are exempt from the emission limit requirements of subsection (c), the capture system requirements of subsection (d), and the capture system requirements of subsection (e) but shall comply with the requirements of 326 IAC 8-7-2(c) and 326 IAC 8-1-9(b).

(C) Sources whose potential emissions of volatile organic compounds VOC are less than ten (10) tons per year shall comply with the requirements of 326 IAC 8-1-9(b).

(4) As of April 1, 2011, all sources located in Lake County or Porter County whose combined emissions of VOC from flexographic or rotogravure printing lines are greater than fifteen (15) pounds per day, including solvents used for cleanup operations associated with flexographic and rotogravure printing lines, before consideration of controls, shall comply with subsection (f).

(b) The following definitions apply throughout this section:

(1) "Flexographic printing" means the application of words, designs, and pictures to a substrate by means of a roll printing technique in which the pattern to be applied is raised above the printing roll and the image carrier is made of rubber or other elastomeric materials.

(2) "Packaging rotogravure printing" means rotogravure printing upon:

(A) paper;
(B) paper board;  
(C) metal foil;  
(D) plastic film; and  
(E) other substrates;  
that are, in subsequent operations, formed into packaging products and labels for articles to be sold.

(2) “Publication rotogravure printing” means rotogravure printing upon paper that is subsequently formed into the following:  
(A) Books.  
(B) Magazines.  
(C) Catalogues.  
(D) Brochures.  
(E) Directories.  
(F) Newspaper supplements. and  
(G) Other types of printed materials.

“Flexographic printing” means the application of words, designs, and pictures to a substrate by means of a roll printing technique in which the pattern to be applied is raised above the printing roll and the image carrier is made of rubber or other elastomeric materials.

(c) No owner or operator of a facility subject to this section and employing solvent-containing ink may cause, allow, or permit the operation of the facility unless:

(1) the volatile fraction of the ink, as it is applied to the substrate, contains twenty-five percent (25%) by volume or less of volatile organic compound VOC and seventy-five percent (75%) by volume or more of water;  
(2) the ink as it is applied to the substrate, less water, contains sixty percent (60%) by volume or more nonvolatile material;  
(3) the owner or operator installs and operates:

(A) a carbon adsorption system that reduces the volatile organic emissions VOC from the capture system by at least ninety percent (90%) by weight;  
(B) an incineration system that oxidizes at least ninety percent (90%) of the nonmethane volatile organic compounds (volatile organic compounds VOC (VOC measured as total combustible carbon) to carbon dioxide and water; or

(C) an alternative volatile organic compound VOC emission reduction system demonstrated to have at least a ninety percent (90%) reduction efficiency, measured across the control system, and has been approved by the commissioner; or

(4) for packaging rotogravure and flexographic printing processes, the ink, as applied to the substrate, meets an emission limit of five-tenths (0.5) pound of volatile organic compound VOC per pound (five-tenths (0.5) kilogram (kg) of volatile organic compound VOC per kg) of solids in the ink.

(d) The following facilities subject to this section shall comply with the capture system requirements in subsection (e):

(1) Facilities existing as of July 1, 1990, with potential volatile organic compound VOC emissions of ninety (90) megagrams (one hundred (100) tons) or greater per year located in Clark, Elkhart, Floyd, Marion, and St. Joseph counties. These facilities shall attain compliance with subsection (e)(1) no later than July 1, 1991.

(2) New facilities, construction of which commences after July 1, 1990, with potential emissions of twenty-two and seven-tenths (22.7) megagrams (twenty-five (25) tons) or greater per year located in any county.

(3) Facilities located in Lake County or Porter County with potential emissions of twenty-two and seven-tenths (22.7) megagrams (twenty-five (25) tons) or greater per year. These facilities shall attain compliance with subsection (e)(1) no later than October 1, 1993. These facilities shall attain compliance with subsection (e)(2) no later than April 1, 2011.

(e) A capture system must be used in conjunction with the emission control systems specified in subsection (c)(3) as follows:

(1) The capture system shall attain an efficiency sufficient to achieve an overall control efficiency, in conjunction with the emission control system, of the following:

(1) (A) Seventy-five percent (75%) for publication rotogravure processes.  
(2) (B) Sixty-five percent (65%) for packaging rotogravure processes. and  
(3) (C) Sixty percent (60%) for flexographic printing processes.

(2) For facilities described in subsection (d)(3), on and after April 1, 2011, the capture system shall attain an efficiency sufficient to achieve an overall control efficiency, in conjunction with the emission control system, of the following:

(A) Seventy-five percent (75%) for publication rotogravure processes.
Sixty percent (60%) for nonpackaging flexographic printing processes.

Sixty-five percent (65%) for packaging rotogravure processes or flexographic printing processes where the press was first installed prior to March 14, 1995, and that is controlled by an add-on air pollution control device whose first installation date was prior to January 1, 2010.

Seventy percent (70%) for packaging rotogravure processes or flexographic printing processes where the press was first installed prior to March 14, 1995, and that is controlled by an add-on air pollution control device whose first installation date was on or after January 1, 2010.

Seventy-five percent (75%) for packaging rotogravure processes or flexographic printing processes where the press was first installed after March 14, 1995, and that is controlled by an add-on air pollution control device whose first installation date was prior to January 1, 2010.

Eighty percent (80%) for packaging rotogravure processes or flexographic printing processes where the press was first installed on or after March 14, 1995, and that is controlled by an add-on air pollution control device whose first installation date was on or after January 1, 2010.

Work practices shall be used to minimize VOC emissions from cleaning operations. Work practices shall include, but not be limited to, the following:

1. When not in use, all cleaning materials shall be kept in closed containers.
2. Cleaning materials shall be conveyed from one (1) location to another in closed containers or pipes.

Notice of Public Hearing

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