

**TITLE 326 AIR POLLUTION CONTROL BOARD**

LSA Document #94-116(F)

**DIGEST**

Amends 326 IAC 1-2 to add definitions for "department", "federally enforceable", and "reasonably available control technology". Adds 326 IAC 8-7 to establish volatile organic compound emission limitations for Lake, Porter, Clark, and Floyd Counties. Effective 30 days after filing with the secretary of state.

**326 IAC 1-2-22.5**

**326 IAC 1-2-64.1**

**326 IAC 1-2-28.5**

**326 IAC 8-7**

SECTION 4. 326 IAC 8-7 IS ADDED TO READ AS FOLLOWS:

Rule 7. Specific VOC Reduction Requirements for Lake, Porter, Clark, and Floyd Counties

326 IAC 8-7-1 Definitions

Authority: IC 13-1-1-4; IC 13-7-7-5

Affected: IC 13-1-1; IC 13-7

Sec. 1. In addition to the definitions contained in 326 IAC 1-2 and 326 IAC 8-1-0.5, the following definitions apply throughout this rule:

- (1) "Aggregate emissions of a source" means the sum of the baseline potential emissions from all the facilities at the source of the types listed in section 2(a) of this rule.
- (2) "Baseline actual emissions" means the actual emissions for the baseline year.
- (3) "Baseline potential emissions" means the facility's potential to emit assuming one hundred percent (100%) use of the highest VOC emitting material used in the baseline year.
- (4) "Baseline year" means the year 1990 or later for which the most accurate or complete data are available and are representative of the source's normal operating conditions.
- (5) "Fuel combustion facility" means a fossil fuel fired steam generating unit, process heater, or process furnace used exclusively for the purpose of producing steam by heat transfer or for heating an industrial process by heat transfer.
- (6) "Industrial wastewater treatment" means the treatment of spent or used water containing dissolved or suspended matter from the following types of industries:

- (A) Organic chemical, plastic, and synthetic fiber manufacturing.
- (B) Pesticide manufacturing.
- (C) Pharmaceutical manufacturing.
- (D) Hazardous waste treatment, storage, and disposal facilities.

(Air Pollution Control Board; 326 IAC 8-7-1; filed Dec 22, 1994, 11:45 a.m.: 18 IR 1224)

326 IAC 8-7-2 Applicability

Authority: IC 13-1-1-4; IC 13-7-7-5

Affected: IC 13-1-1; IC 13-7

Sec. 2. (a) This rule shall apply to stationary sources located in Lake, Porter, Clark, or Floyd County that emit or have the potential to emit volatile organic compounds (VOCs) at levels equal to or greater than twenty-five (25) tons per year (tpy) in Lake and Porter Counties and one hundred (100) tpy in Clark and Floyd Counties. This rule shall also apply to sources that have coating facilities which emit or have the potential to emit a total equal to or greater than ten (10) tpy of VOCs in Floyd, Clark, Lake, or Porter County. In determining whether the thresholds in this section are exceeded, the owner or operator of a source shall include the total potential VOC emissions from the following facilities:

(1) Facilities of the type identified by the following rules, but with actual emissions below the applicability levels of those rules:

- (A) 326 IAC 8-2, concerning surface coating operations.
- (B) 326 IAC 8-3, concerning organic solvent degreasing operations.
- (C) 326 IAC 8-4, concerning petroleum operations.
- (D) 326 IAC 8-5, concerning miscellaneous operations.

(2) Facilities of the following types:

- (A) Fuel combustion facilities, including process heaters and furnaces.
- (B) Wastewater treatment plants, excluding industrial wastewater treatment operations as defined in section 1(6) of this rule.
- (C) Coke ovens, including byproduct ovens.
- (D) Barge loading facilities.
- (E) Jet engine test cells.
- (F) Iron and steel production facilities.
- (G) Vegetable oil processing facilities.

(3) All other facilities with potential VOC emissions, hereafter referred to as affected facilities except those covered by the rules cited in clauses (A) through (D) and those belonging to source categories listed in clauses (E) through (Q) as follows:

- (A) 326 IAC 8-2.
- (B) 326 IAC 8-3.
- (C) 326 IAC 8-4.

- (D) 326 IAC 8-5.
- (E) Synthetic organic chemical manufacturing industry (SOCMI) distillation.
- (F) SOCMI reactors.
- (G) Offset lithography.
- (H) Batch processors.
- (I) Industrial wastewater treatment operations.
- (J) Plastic parts coating for business machines.
- (K) Plastic parts coating for automobiles.
- (L) Wood furniture coating.
- (M) Aerospace coating.
- (N) Auto body refinishing.
- (O) Ship building and ship repair.
- (P) Cleanup solvents.
- (Q) Volatile organic liquids storage.

(b) Facilities of the types listed in subsection (a)(1) through (a)(2) are exempt from the emission limit requirements of section 3 of this rule.

(c) Coating facilities that have aggregate potential emissions greater than ten (10) tpy and less than twenty-five (25) tpy in Lake and Porter Counties and coating facilities with aggregate potential emissions greater than forty (40) tpy and less than one hundred (100) tpy in Clark and Floyd Counties shall comply with the certification, record keeping, and reporting requirements of section 6 of this rule.

(d) Affected facilities are subject to the requirements of section 3 of this rule unless the source's actual emissions have been limited on or before May 31, 1995, to below twenty-five (25) tpy in Lake and Porter Counties and one hundred (100) tpy in Clark and Floyd Counties through federally enforceable production or capacity limitations in an operating permit. Until such time as 326 IAC 2-8 has been approved by the U.S. EPA, the operating permit will be submitted to the U.S. EPA by the department as a SIP revision. (*Air Pollution Control Board; 326 IAC 8-7-2; filed Dec 22, 1994, 11:45 a.m.: 18 IR 1224*)

**326 IAC 8-7-3 Emission limits**  
 Authority: IC 13-1-1-4; IC 13-7-7-5  
 Affected: IC 13-1-1; IC 13-7

Sec. 3. Affected facilities must implement one (1) of the following emissions reduction measures on or before May 31, 1995:

- (1) Achieve an overall VOC reduction from baseline actual emissions of at least ninety-eight percent (98%) by the documented reduction in use of VOC containing materials or install an add-on control system that achieves an overall control efficiency of ninety-eight percent (98%).
- (2) Where it can be demonstrated by the source that

control technology does not exist that is reasonably available and both technologically and economically feasible to achieve a ninety-eight percent (98%) reduction in VOC emissions, a source shall achieve an overall VOC reduction of at least eighty-one percent (81%) from baseline actual emissions with the documented reduction in use of VOC containing materials or install an add-on control system that achieves an overall control efficiency of eighty-one percent (81%).

(3) Achieve an alternative overall emission reduction with the application of reasonably available control technology (RACT) that has been determined as reasonably available by the U.S. EPA and the department. A petition developed in accordance with the procedures in 326 IAC 8-1-5 shall accompany the request for an alternative overall emission reduction. The petition shall be submitted to the department on or before December 31, 1994. The department may approve an extension until February 28, 1995, for submittal of the petition provided the request is received by the department prior to December 31, 1994.

(*Air Pollution Control Board; 326 IAC 8-7-3; filed Dec 22, 1994, 11:45 a.m.: 18 IR 1225*)

**326 IAC 8-7-4 Compliance methods**  
 Authority: IC 13-1-1-4; IC 13-7-7-5  
 Affected: IC 13-1-1; IC 13-7

Sec. 4. (a) If compliance with section 3(1) or 3(2) of this rule is to be achieved with the application of an add-on control system or systems, the following requirements shall apply:

- (1) On or before December 31, 1994, the source shall submit to the department a compliance plan containing the following information:
  - (A) A description of the processes that will be controlled.
  - (B) A description of the add-on control systems.
  - (C) A description of the expected control efficiency that will be achieved.

(2) A compliance test shall be performed on the add-on control systems according to the schedule and situations described in section 9(4) of this rule. The test results will be used to demonstrate compliance with the applicable emission limit and establish process and control system operating parameters.

(3) After August 31, 1995, compliance shall continue to be demonstrated by monitoring the process and control system operating parameters established in the initial compliance test unless the parameters are revised by a subsequent test. Any subsequent test and revision to process and control system operating parameters must be submitted to the department as a revision to the compliance plan and be approved by the department. A copy of the most recent compliance test shall be located

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at the facility and shall be made available to any department or U.S. EPA inspector upon request.

(4) Results of the compliance test required by subdivision (2) shall be submitted to the department on or before September 30, 1995, and shall contain, at a minimum, all of the following:

- (A) Test methods and procedures.
- (B) Overall control efficiency.
- (C) Process operating parameters during the compliance test, including, but not limited to, the following:
  - (i) Production rate.
  - (ii) Temperature.
  - (iii) Pressure.
  - (iv) Moisture content of process stream.
  - (v) Characteristics of process materials.
  - (vi) Other parameters relevant to the emissions of VOC.

(b) If compliance with section 3(1) or 3(2) of this rule is to be achieved through the reduction in the use of VOC containing materials, the owner or operator shall submit a compliance plan on or before December 31, 1994.

(1) The compliance plan shall contain, at a minimum, all of the following information:

- (A) The name and address of the source, and the name and telephone number of a company representative.
- (B) A complete description of the baseline actual emissions.
- (C) A complete description of the VOC containing materials, such as chemicals, coatings, solvents, and cleaning materials used at the facility with an identification of the VOC containing materials that will be replaced along with a complete description of the replacement materials. The owner or operator shall also include a description of the operations in which the VOC containing materials are used.
- (D) A comprehensive record keeping and monitoring plan that will be used to insure and demonstrate compliance. The plan must follow the test methods and procedures as described in section 7 of this rule.

(2) The owner or operator shall also submit a copy of the approved compliance plan with the source's Part 70 permit application. The Part 70 permit application must be submitted to the department no later than six (6) months, and issued no later than twelve (12) months, from the effective date of Indiana's Part 70 permit program. The department shall incorporate the approved compliance plan into the source's Part 70 permit which shall include specific enforceable permit conditions. These permit conditions shall reflect limits, with no longer than daily averaging, on VOC content of process materials, capture and control efficiencies, or other conditions that will limit VOC emissions and

demonstrate compliance with the requirements of this rule. The permit shall also include appropriate test methods that are consistent with the methods incorporated within 326 IAC 8 [this article], and sufficient monitoring record keeping and reporting requirements to assure that information is available to document continuous compliance with the VOC limits. The department will submit a copy of the compliance plan to the U.S. EPA for review. On or after May 31, 1995, the owner or operator shall operate the facility as described in the approved compliance plan unless request by the department to modify the plan as described in section 3 of this rule.

(c) If a source intends to comply with section 3(2) of this rule, it shall submit to the department on or before December 31, 1994, for review and approval, documentation demonstrating that ninety-eight percent (98%) control is not reasonably achievable taking into account availability of alternative materials, technical feasibility, cost, and other factors considered by the source. A demonstration that ninety-eight percent (98%) control is not achieved in similar operations, if any, in other ozone nonattainment areas within the United States is an acceptable demonstration.

(d) Owners or operators who elect to comply with section 3(3) of this rule are subject to the following requirements:

(1) Compliance shall be achieved with the application of one (1) or more emission reduction systems including, but not limited to, the following:

- (A) add-on controls;
- (B) elimination or reduction in use of VOC containing materials; or
- (C) work practices.

(2) On or before December 31, 1994, the owner or operator shall submit to the department a compliance plan containing all of the following information:

- (A) The name and address of the source and the name and telephone number of a company representative.
- (B) A petition for a site specific RACT control plan developed in accordance with the procedures in 326 IAC 8-1-5.
- (C) Identification of all VOC emitting facilities along with the description of the purpose each facility serves.
- (D) A list of the facilities that meet the applicability criteria of section 2(a) of this rule.
- (E) Baseline actual emissions for each facility identified in clause (D) along with the following information:

- (i) Maximum design rate, maximum production

or maximum throughput.

(ii) Identification, amount, and VOC emission factor of process materials such as coatings, chemicals, and fuels.

(iii) Baseline year.

(F) A complete description of the emission reduction measures that the source intends to implement, the percent VOC reduction to be achieved by these measures, and calculations that demonstrate that the measures will meet the projected VOC reductions described in the source's petition for site specific RACT. The compliance plan shall also describe the expected percentage of overall emission reduction from baseline actual emissions. Supporting documentation such as:

(i) a manufacturer's warranty on a control system;

(ii) the difference in the VOC emission factor of the baseline coating or process chemicals; or

(iii) an increase in transfer efficiency;

shall be included.

(G) The operation, maintenance, monitoring, and record keeping procedures that will ensure continued compliance.

(H) The expected annual VOC emission in tons per year (tpy) after applying the emission reduction systems.

(e) Owners or operators who elect to comply with this rule with the application of enforceable permit limits, in accordance with section 2(d) of this rule shall, prior to December 31, 1994, submit an application for a federally enforceable state operating permit (FESOP) in accordance with 326 IAC 2-8. Until such time as 326 IAC 2-8 has been approved by the U.S. EPA, the operating permit will be submitted to the U.S. EPA by the department as a SIP revision. The source shall include as a part of the permit application, the following information:

(1) The name and address of the source and the name and telephone number of a company representative.

(2) Identification of all VOC emitting facilities together with a description of the purpose each facility serves.

(3) A list of facilities that meet the requirements of section 2(a) of this rule.

(4) Baseline actual emissions for each facility identified in subdivision (3) along with the following information:

(A) Baseline year.

(B) Maximum design rate, maximum production, or maximum throughput.

(C) Identification, amount, and VOC emission factor of process materials such as coatings, chemicals, and fuels.

(5) Identification of facilities for which limitation on hours of operation or limitation on amount of production has been proposed along with the proposed number

of hours or amount of production.

(6) The monitoring and record keeping procedures that will be used to demonstrate compliance with the limitation on hours of operation or limitations in amount of production.

(7) A signed statement providing that the proposed limitation on hours of operation or limitation on amount of production shall be fully implemented prior to or on May 31, 1995.

The monitoring and record keeping procedures that will demonstrate compliance with the limitation on hours of operation or limitations in amount of production will be incorporated into the source's operating permit.

(f) The department may approve an extension until February 28, 1995, for any compliance plan, demonstration, or application required by this section, provided the request is received by the department prior to December 31, 1994. (*Air Pollution Control Board; 326 IAC 8-7-4; filed Dec 22, 1994, 11:45 a.m.: 18 IR 1225*)

#### 326 IAC 8-7-5 Compliance plan

Authority: IC 13-1-1-4; IC 13-7-7-5

Affected: IC 13-1-1; IC 13-7

Sec. 5. Compliance plans required by this rule must be approved by the department. The department may:

(1) Request additional information if the information contained in the compliance plan is found to be incomplete or indicates noncompliance with the rule.

(2) Request modifications in the proposed operation, maintenance, monitoring, and record keeping procedures.

(3) If the department requests modifications in the proposed operation, maintenance, monitoring, or record keeping procedures, the owner or operator shall resubmit a new compliance plan containing the modification within sixty (60) days of the initial notification.

(4) Compliance plans required by this rule must be approved by the department by November 30, 1995.

(*Air Pollution Control Board; 316 IAC 8-7-5; filed Dec 22, 1994, 11:45 a.m.: 18 IR 1227*)

#### 326 IAC 8-7-6 Certification, record keeping, and reporting requirements for coating facilities

Authority: IC 13-1-1-4; IC 13-7-7-5

Affected: IC 13-1-1; IC 13-7

Sec. 6. On or before December 31, 1994, or upon the startup of any new coating facility meeting the aggregate potential emissions criteria of section 2(c) of this rule, each source or facility shall submit to the department a certification that the facility is exempt from the requirements of section 3 of this rule. The certification shall contain all of the following information:

(1) The name and address of the source and the name

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- and telephone number of the company representative.
- (2) Identification of each VOC emitting facility together with a description of the purpose each facility serves.
- (3) A listing of facilities which meet the requirements of section 2(a) of this rule.
- (4) Baseline actual emissions for each facility identified in subdivision (3) together with the following information:
- (A) Maximum design rate, maximum production, or maximum throughput.
  - (B) VOC emission factors with reference to the source of the emission factors and procedures as to how the emission factors were estimated, for example, the type of each fuel or process chemicals used and the baseline year used.
- (5) Procedures that will be used to monitor the source's potential emissions to ensure that they remain below twenty-five (25) tpy.

*(Air Pollution Control Board; 326 IAC 8-7-6; filed Dec 22, 1994, 11:45 a.m.: 18 IR 1227)*

### 326 IAC 8-7-7 Test methods and procedures

Authority: IC 13-1-1-4; IC 13-7-7-5  
Affected: IC 13-1-1; IC 13-7

Sec. 7. The owner or operator of any source subject to this rule shall be subject to the applicable test method requirements of 326 IAC 8-1-4 and in 40 CFR 60, Appendix A\*.

\*Copies of the Code of Federal Regulations (CFR) referenced may be obtained from the Government Printing Office, Washington, D.C. 20402. Copies of pertinent sections are also available from the Indiana Department of Environmental Management, 100 North Senate Avenue, Indianapolis, Indiana 46204. *(Air Pollution Control Board; 326 IAC 8-7-7; filed Dec 22, 1994, 11:45 a.m.: 18 IR 1228)*

### 326 IAC 8-7-8 General record keeping and reports

Authority: IC 13-1-1-4; IC 13-7-7-5  
Affected: IC 13-1-1; IC 13-7

Sec. 8. In addition to complying with specific recording and reporting requirements in other sections of this rule, sources shall comply with all of the following requirements:

- (1) All records required by this rule shall be maintained for at least three (3) years.
- (2) Records required by this rule or records used to demonstrate that a source is exempt from the requirements of this rule shall be submitted to the department or the U.S. EPA within thirty (30) days of the receipt of a written request. If such records are not available, the source shall be considered to be subject to the emission limits contained in section 3 of this rule.
- (3) Sources subject to this rule shall notify the department at least thirty (30) days prior to the addition or modification of a facility which may result in a potential increase in VOC emissions.

*(Air Pollution Control Board; 326 IAC 8-7-8; filed Dec 22, 1994, 11:45 a.m.: 18 IR 1228)*

### 326 IAC 8-7-9 Control system operation, maintenance, and testing

Authority: IC 13-1-1-4; IC 13-7-7-5  
Affected: IC 13-1-1; IC 13-7

Sec. 9. The following requirements shall apply to sources that choose to meet the emission limit requirements section 3 of this rule at any facility using a control device:

(1) The control system shall be operated and maintained according to the manufacturer's recommendations but may be modified based on the results of the initial subsequent compliance test or upon the written request of the department.

(2) The operating and maintenance procedures shall be followed beginning no later than May 31, 1995. A copy of the procedures shall be submitted to the department no later than September 30, 1995.

(3) A copy of the operating and maintenance procedures shall be maintained in a convenient location at the source property and as close to the control system as possible for the reference by plant personnel and department inspectors.

(4) The control system shall be tested according to the following schedule and under the following situations:

(A) An initial compliance test shall be conducted on or before August 31, 1995, and every two (2) years after the date of the initial test.

(B) A compliance test shall also be conducted whenever the owner or operator chooses to operate a control system under conditions different from those that were in place at the time of the previous test.

(C) If the owner or operator chooses to change the method of compliance with section 3 of this rule, a compliance test shall be performed within three months of the change.

(D) A compliance test shall also be performed within ninety (90) days of the startup of a new facility or upon a written request by the department or the U.S. EPA.

(5) All compliance tests shall be conducted according to a protocol approved by the department at least thirty (30) days before the test. The protocol shall contain, as a minimum, the following information:

(A) Test procedures.

(B) Operating and control system parameters.

(C) Type of VOC containing process material being used.

(D) The process and control system parameters which will be monitored during the test.

*(Air Pollution Control Board; 326 IAC 8-7-9; filed Dec 22, 1994, 11:45 a.m.: 18 IR 1228)*

**326 IAC 8-7-10 Control system monitoring, record keeping, and reporting**

Authority: IC 13-1-1-4; IC 13-7-7-5  
Affected: IC 13-1-1; IC 13-7

**Sec. 10. (a) Sources that choose to meet the emission limit requirements of section 3 of this rule with the use of a control device or devices shall install, calibrate, maintain, and operate, according to the manufacturer's specification, the following monitoring equipment unless an alternative monitoring procedure has been approved by the department:**

(1) If a thermal incinerator is used for VOC reduction, a temperature monitoring device capable of continuously recording the temperature of the gas stream in the combustion zone of the incinerator shall be used. The temperature monitoring device shall have an accuracy of one percent (1%) of the temperature being measured in degrees centigrade plus or minus five-tenths degree Centigrade ( $\pm 0.5^{\circ}\text{C}$ ), whichever is greater.

(2) If a catalytic incinerator is used for VOC reduction, a temperature device capable of continuously recording the temperature in the gas stream immediately before and after the catalyst bed of the incinerator shall be used. The temperature monitoring device shall have an accuracy of one percent (1%) of the temperature being measured in degrees centigrade plus or minus five-tenths degree Centigrade ( $\pm 0.5^{\circ}\text{C}$ ), whichever is greater.

(3) If a carbon adsorber is used to remove and recover VOC from the gas stream, a VOC monitoring device capable of continuously recording the concentration level of VOC at the outlet of the carbon bed shall be used. The monitoring device shall be based on a detection principle such as infrared, photoionization, or thermal conductivity.

(4) Where a VOC recovery device other than a carbon adsorber is used, the source shall provide to the department information describing the operation of the device and the process parameters which would indicate proper operation and maintenance of the control device. The department may request further information and will specify appropriate monitoring procedures and reporting requirements.

(b) Sources subject to the requirements of this section shall maintain the following records:

(1) A log of the operating time of the facility and the facility's capture system, control device, and monitoring equipment.

(2) A maintenance log for the capture system, the control device, and the monitoring equipment detailing all routine and nonroutine maintenance performed. The log shall include the dates and duration of any outages of the capture system, the control device, or the monitoring system.

(3) The following additional records shall be maintained for facilities using thermal incinerators:

(A) Continuous records of the temperature in the gas stream in the combustion zone of the incinerator.

(B) Records of all three (3) hour periods of operation for which the average combustion temperature of the gas stream in the combustion zone was more than fifty degrees Fahrenheit ( $50^{\circ}\text{F}$ ) below the combustion zone temperature which existed during the most recent compliance test that demonstrated that the facility was in compliance.

(4) The following additional records shall be maintained for facilities using catalytic incinerators:

(A) Continuous records of the temperature of the gas stream both upstream and downstream of the catalyst bed of the incinerator.

(B) Records of all three (3) hour periods of operation for which the average temperature measured at the process vent stream immediately before the catalyst bed is more than fifty degrees Fahrenheit ( $50^{\circ}\text{F}$ ) below the average temperature of the process vent stream which existed during the most recent compliance test that demonstrated that the facility was in compliance.

(C) Records of all three (3) hour periods of operation for which the average temperature difference across the catalyst bed is less than eighty percent (80%) of the temperature difference measured during the most recent compliance test that demonstrated that the facility was in compliance.

(5) The following additional records shall be maintained for facilities using carbon adsorbers:

(A) Continuous records of the VOC concentration level or reading in the exhaust stream of the carbon adsorber.

(B) Records of all three (3) hour periods of operation during which the average VOC concentration level or reading in the exhaust gas is more than twenty percent (20%) greater than the average exhaust gas concentration level or reading measured by the organic monitoring device during the most recent determination of the recovery efficiency of the carbon adsorber that demonstrated that the facility was in compliance.

(6) Facilities using VOC recovery devices other than carbon adsorbers shall maintain the monitoring records and meet the reporting requirements specified by subsection (a)(4).

(7) Information requirements in subdivisions (3)(B), (4)(B), (4)(C), and (5)(B) shall be submitted to the department within thirty (30) days of occurrence. The following information shall accompany the submittal:

(A) The name and location of the facility.

(B) Identification of the control system where the excess emission occurred and the facility it served.

(C) The time, date, and duration of the exceedence [sic].

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**(D) Corrective action taken.**

*(Air Pollution Control Board; 326 IAC 8-7-10; filed Dec 22, 1994, 11:45 a.m.: 18 IR 1229)*

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