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Texas Register

Volume 13, Number 44, June 7, 1988

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§115.192. Control Techniques.

(a) If add-on-controls such as incinerators or vapor recovery systems are used to comply with the emission limitation requirements of §115.191 of this title (relating to Emission Limitations), the capture and abatement system shall be capable of achieving and maintaining an overall volatile organic compound control efficiency of at least 80%. [The volatile organic compound capture and abatement system shall be at least 80% efficient overall.] The owner or [] operator of any surface coating facility shall submit design data for each capture system and emission control device which is proposed for use to the executive director for approval.

(b) Compliance with subsection (a) of this section shall be determined by applying the following test methods, as appropriate:

(1) Test Method 1-4 (40 Code of Federal Regulations 60, Appendix A) for determining flow rates, as necessary;

(2) Test Method 25 (40 Code of Federal Regulations 60, Appendix A) for determining total gaseous nonmethane organic emissions as carbon;

(3) Test Methods 25A or 25B (40 Code of Federal Regulations 60 Appendix A) for determining total gaseous organic concentrations using flame ionization or nondispersive infrared analysis;

(4) additional performance test procedures described in 40 Code of Federal Regulations 60.444; or

(5) equivalent test methods approved by the executive director.

(c) The owner or operator of any surface coating facility which utilizes add-on control techniques approved by the executive director in accordance with subsection (a) of this section shall:

(1) install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications, including:

(A) the exhaust gas temperature of direct-flame incinerators and/or the gas temperature immediately upstream and downstream of any catalyst bed, in degrees Celsius;

(B) the total amount of volatile organic compounds recovered by carbon adsorption or other solvent recovery systems during a calendar month; and

(C) the dates and reasons for any maintenance and repair of the

required control devices and the estimated quantity and duration of volatile organic compound emissions during such activities.

(2) maintain records of any testing conducted at an affected facility in accordance with the provisions specified in subsection (b) of this section; and

(3) maintain all records at the affected facility for at least two years and make such records available to representatives of the Texas Air Control Board or local air pollution control agency, upon request.

§15.193. Exemptions.

(a)-(e) (No change).

(f) After August 31, 1990, in Dallas and Tarrant Counties, only those surface coating operations on a property, which when uncontrolled, will emit a combined weight of volatile organic compounds of less than 100 pounds in any consecutive 24-hour period or 10 tons per year, whichever is more restrictive, except aircraft prime coating controlled by §115.191(a)(9)(H) (v) and automobile refinishing controlled by §115.191(a)(8)(D), shall be exempt from the provisions of §115.191 of this title (relating to Emission Limitations). Records shall be maintained sufficient to document the applicability of the conditions of this exemption.

This agency hereby certifies that the proposal has been reviewed by legal counsel and found to be within the agency's authority to adopt.

Issued in Austin, Texas, on May 27, 1988.

TRD-8805434

Allen Eli Bell
Executive Director
Texas Air Control Board

Proposed date of adoption: September 16, 1988

For further information, please call: (512) 451-5711, ext. 354

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**Graphic Arts (Printing) by
Rotogravure and
Flexographic Processes**

• **31 TAC §115.201, §115.203**

The Texas Air Control Board (TACB) proposes amendments to §115.201 and §115.203, concerning graphic arts (printing) by rotogravure and flexographic processes in Brazoria, Dallas, El Paso, Galveston, Gregg, Harris, Jefferson, Nueces, Orange, Tarrant, and Victoria counties. The proposed amendment to §115.201 clarifies that the emission limitations for low solvent inks are to be calculated minus water and exempt solvents. The proposed amendment specifies the test methods to be used to determine compliance with applicable control requirements and the recordkeeping which must be maintained at all affect graphic arts facilities in Dallas and Tarrant counties. The proposed amendment to §115.203 requires final control plans submitted by graphic arts facilities shall include a

commitment to conduct appropriate initial compliance testing no later than 90 days after the specified compliance deadline. Additional proposed amendments to these sections will clarify and simplify the enforcement of current requirements. The proposed amendments are part of a series of revisions to Chapter 115 to insure the maximum effectiveness of controls adopted in conjunction with the Post-1982 State Implementation Plan (SIP) revisions for ozone in Dallas and Tarrant counties.

Bennie L. Engelke, director of management and staff services, has determined that for the first five-year period the sections as proposed are in effect, there would be no fiscal implications for the state or local units of government or for small businesses not expressly required to comply with the sections as proposed. Economic costs to individuals and businesses required to implement the proposed measures are associated only with the recordkeeping requirements, as follows. The annual cost is estimated to be none for fiscal year 1989, \$1,700 for fiscal year 1990, and \$5,000 per year for fiscal years 1991-1993.

Les Montgomery, director of technical support and regulation development program, also has determined that for each year of the first five years the sections are in effect the public benefit anticipated as a result of enforcing the sections will be more effective and consistent enforcement of controls for reducing emissions of volatile organic compounds in Dallas and Tarrant counties after August 31, 1990. In addition, these measures are necessary to satisfy commitments included in the SIP revisions for Dallas and Tarrant counties.

Public hearings on this proposal are scheduled for the following times and places: June 29, 1988, 10 a.m., Texas Air Control Board Auditorium, 6330 Highway 290 East, Austin; June 29, 1988, 7 p.m., Downtown Central Library Auditorium, 1515 Young Street, Dallas; and June 30, 1988, 2 p.m., City Council Chambers, 1000 Throckmorton, Fort Worth.

Copies of the proposed sections are available at the central office of the Texas Air Control Board, 6330 Highway 290 East, Austin, Texas 78723, and at all TACB regional offices. Public comment, both oral and written, on the proposed changes is invited at the hearings. The TACB would appreciate receiving five copies of testimony prior to or at the hearing. Written testimony received by 4 p.m. on July 1, 1988, at the TACB central office will be included in the hearing record. Written comments should be sent to the Regulation Development Section, Texas Air Control Board, 6330 Highway 290 East, Austin, Texas 78723.

The amendments are proposed under Texas Civil Statutes, Article 4477-5, §3.09(a), which provide the TACB with the authority to make rules and regulations consistent with the general intent and purposes of the Texas Clean Air Act and to amend any rule or regulation the TACB makes.

§115.201. Control Requirements.

(a) No person shall operate or allow the operation of a packaging rotogravure, publication rotogravure, or flexographic printing facility that uses solvent-containing ink unless volatile organic compound emissions are limited by one of the following:

(1) application to the substrate of low solvent [The volatile fraction of] ink with a volatile fraction containing [, as it is applied to the substrate, contains] 25% by volume or less of volatile organic compound solvent and 75% by volume or more of water and exempt solvent;

(2) application to the substrate of high solids solvent borne [The] ink containing [as it is applied to the substrate, less water, contains] 60% by volume or more of nonvolatile material (minus water and exempt solvent); or

(3) operation of a carbon adsorption or incineration system [is operated] to reduce the volatile organic compound emissions from an effective capture system by at least 90% by weight. The design and operation of the capture system must be consistent with good engineering practice, and shall be required to provide for an overall reduction in volatile organic compound emissions, as demonstrated to the satisfaction of the executive director, upon request, of at least the following weight percentages: 75% for a publican rotogravure process, 65% for a packaging rotogravure process, and 60% for a flexographic printing process.

(b) Compliance with subsection (a) of this section in Dallas and Tarrant counties shall be determined upon request of the executive director by applying the following test methods, as appropriate:

(1) (No change.)

(2) Test Method 24[A] (40 Code of Federal Regulations 60, Appendix A) for determining the volatile organic compound content and density of printing inks and related coatings;

(3) Test Method 25 (40 Code of Federal Regulations 60, Appendix A) for determining total gaseous nonmethane organic emissions as carbon; [the volatile organic compound concentration in a vent gas stream from an incinerator;]

(4) Test Methods 25A or 25B (40 Code of Federal Regulations 60, Appendix A) for determining total gaseous organic concentrations using flame ionization or nondispersive infrared analysis; [the volatile organic compound concentration in a vent gas stream from a carbon adsorption unit, or;]

(5) United States Environmental Protection Agency guidelines series document *Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink, and Other Coatings*, EPA-450/3-84-011, as in effect December, 1984; or

(6)[(5)] equivalent test methods and procedures approved by the executive director.

(c) The owner or operator of any graphic arts facility subject to the control requirements of this section shall:

(1) maintain records of the volatile organic compound content of all inks as applied to the substrate. The composition of inks may be determined by the methods referenced in paragraph (b) of this section or by examining the manufacturer's formulation data and the amount of dilution solvent added to adjust the viscosity of inks prior to application to the substrate;

(2) maintain daily records of the quantity of each ink and solvent used at a facility subject to the requirements of an alternate means of control approved by the executive director in accordance with §115.401 of this title (relating to Alternate Means of Control) which allows the application of inks exceeding the applicable control limits. Such records must be sufficient to demonstrate compliance with the applicable emission limitation on a daily weighted average;

(3) install and maintain monitors to accurately measure and record operational parameters of any emission control device installed to meet applicable control requirements. Such records must be sufficient to demonstrate proper functioning of those devices to design specifications, including:

(A) the exhaust gas temperature of direct-flame incinerators and/or the gas temperature immediately upstream and downstream of any catalyst bed, in degrees Celsius;

(B) the total amount of volatile organic compounds recovered by a carbon adsorption or other solvent recovery system during a calendar month; and

(C) the dates and reasons for any maintenance and repair of the required control devices and the estimated quantity and duration of volatile organic compound emissions during such activities.

(4) maintain the results of any testing conducted at an affected facility in accordance with the provisions specified in subsection (b) of this section;

(5) maintain all records at the affected facility for at least two years and make such records available to representatives of the Texas Air Control Board or the local air pollution agency having jurisdiction in the area, upon request.

§115.203. *Compliance Schedule and Counties.*

(a) (No change.)

(b) All persons affected by the provisions of §115.202(b) of this title (relating to Exemptions) shall submit to the Texas Air Control Board a final control plan for

compliance with the provisions of §115.201 of this title (relating to Control Requirements) no later than December 31, 1988, and shall be in compliance as soon as practicable but no later than December 31, 1989. The final control plan shall include a commitment to conduct appropriate initial compliance testing no later than 90 days after the compliance deadline.

This agency hereby certifies that the proposal has been reviewed by legal counsel and found to be within the agency's authority to adopt.

Issued in Austin, Texas, on May 27, 1988.

TRD-8805433

Allen Ell Bell
Executive Director
Texas Air Control Board

Proposed date of adoption: September 16, 1988

For further information, please call: (512) 451-5711 ext. 354

Perchloroethylene Dry Cleaning Systems

• 31 TAC §115.221

The Texas Air Control Board (TACB) proposes an amendment to §115.221, concerning perchloroethylene dry cleaning systems in Brazoria, Dallas, El Paso, Galveston, Gregg, Harris, Jefferson, Nueces, Orange, Tarrant, and Victoria counties. The proposed amendment requires the storage of waste solvent material in vapor-tight containers and specify the test methods to be used to determine compliance with applicable control requirements. The proposed amendment is part of a series of revisions to Chapter 115 to insure maximum effectiveness of controls adopted in conjunction with the Post-1982 State Implementation Plan (SIP) revisions for ozone in Dallas and Tarrant counties.

Bennie L. Engelke, director of management and staff services, has determined that for the first five-year period the section as proposed is in effect, there would be no fiscal implications of the state and local units of government or for small businesses not expressly required to comply with the section as proposed. Waste handling procedures and test methods proposed by this section are in common practice within the affected industry and are not expected to result in additional capital or operational expense.

Les Montgomery, director of technical support and regulation development program, has determined that for each of the first five years the section as proposed is in effect, the public benefit anticipated as a result of implementing the section will be more effective and consistent enforcement of controls for reducing emissions of volatile organic compounds in Dallas and Tarrant counties after August 31, 1990. In addition, these measures are necessary to satisfy commitments included in the SIP revisions for Dallas and Tarrant counties.

Public hearings on this proposal are scheduled for the following times and places: June 29, 1988, 10 a.m., Texas Air Control Board Auditorium, 6330 Highway 290 East, Austin; June 29, 1988, 7 p.m., Downtown Central