

# Texas Register

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(A)-(C) (No change.)

[(4) In counties other than Dallas and Tarrant, architectural coatings are exempt from the provisions of §115.421(a)(11) of this title if manufactured before July 31, 1992.]

(3)[(5)] [In Dallas, El Paso, Harris, and Tarrant Counties, and after July 31, 1993, in counties other than Dallas, El Paso, Harris, and Tarrant, the] The following exemptions shall apply to surface coating operations, except for aircraft prime coating controlled by §115.421(a)(9)(A)(v) of this title and automobile and truck refinishing controlled by §115.421(a)(8)(B) and (C) of this title.

(A)-(C) (No change.)

(4)[(6)] The following architectural coatings are exempt from the provisions of §115.421(a)(11) of this title:

(A) paints sold in containers of one quart or less;

(B) paints used on roadways, pavement, swimming pools, and similar surfaces; [and]

(C) concentrated color additives; [.]

(D) architectural coatings sold for shipment outside of the Beaumont/Port Arthur, Dallas/Fort Worth, El Paso, and Houston/Galveston Areas or for shipment to other manufacturers for repackaging; and

(E) in ozone nonattainment counties other than Dallas and Tarrant, architectural coatings manufactured before July 31, 1992.

(5) Automobile refinishing facilities in Hardin, Jefferson, and Orange Counties, are exempt from the requirements of §115.421(a)(8)(C) of this title and §115.422(1)(2) of this title.

(6) Until July 31, 1994, automobile refinishing facilities in Brazoria, Chambers, Collin, Denton, El Paso, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller Counties are exempt from the requirements of §115.421(a)(8)(C) of this title and §115.422(1)(2) of this title.

[(7) Sealants applied over bare metal during automobile refinishing solely for the prevention of flash rusting are exempt from the provisions of §115.421(a)(8)(C) of this title.]

(b) (No change.)

#### *§115.429. Counties and Compliance Schedules.*

[(a) All affected persons in Chambers, Collin, Denton, Fort Bend, Hardin, Liberty, Montgomery, and Waller Counties shall be in compliance with §115.421(a) of this title (relating to Emission Specifications), §115.422 of this title (relating to Control Requirements), §115.423(a) of this title (relating to Alternate Control Requirements), §115.424(a) of this title (relating to Inspection Requirements), §115.425(a) of this title (relating to Testing Requirements), §115.426(a) of this title (relating to Monitoring and Recordkeeping Requirements), and §115.427(a) of this title (relating to Exemptions) as soon as practicable, but no later than July 31, 1993.

[(b) All affected persons in Brazoria, El Paso, Galveston, Harris, Jefferson, and Orange Counties shall be in compliance with §115.421(a)(9)(A)(v) and (a)(11) of this title as soon as practicable, but no later than July 31, 1993.

[(c) All affected persons in Brazoria, Galveston, Jefferson, and Orange Counties shall be in compliance with §115.427(a)(5) of this title as soon as practicable, but no later than July 31, 1993.

(a)[(d)] All affected mirror backing coating facilities in Brazoria, Chambers, Collin, Dallas, Denton, El Paso, Fort Bend, Galveston, Hardin, Harris, Jefferson, Liberty, Montgomery, Orange, Tarrant, and Waller Counties shall be in compliance with §115.421(a) of this title (relating to Emission Specifications); §115.422 of this title (relating to Control Requirements); §115.423(a) of this title (relating to Alternate Control Requirements); §115.424(a) of this title (relating to Inspection Requirements); §115.425(a) of this title (relating to Testing Requirements); §115.426(a) of this title (relating to Monitoring and Recordkeeping Requirements); and §115.427(a) of this title (relating to Exemptions) as soon as practicable, but no later than July 31, 1994.

(b) All automobile refinishing facilities in Dallas and Tarrant Counties shall be in compliance with §115.421(a)(8)(C) of this title as soon as practicable, but no later than July 31, 1994.

(c) All automobile refinishing facilities in Brazoria, Chambers, Collin, Denton, El Paso, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller Counties shall be in compliance with §115.421(a)(8)(C) of this title and §115.422(1) and (2) of this title as soon as practicable, but no later than July 31, 1994.

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 July 5, 1993.

TRD-9325259

Lane Hartscock  
Deputy Director  
Texas Air Control Board

Proposed date of adoption: November 12, 1993

For further information, please call: (512) 908-1451

### Subchapter E. Solvent-Using Processes

#### Offset Lithographic Printing

• 31 TAC §§115.442, 115.443, 115.445, 115.446, 115.449

The Texas Air Control Board (TACB) proposes new §§115.442, 115.443, 115.445, 115.446, and 115.449, concerning Offset Lithographic Printing. This new undesignated head will be included in existing Subchapter E, concerning Solvent-using Processes. The new sections have been developed in response to a requirement by the United States Environmental Protection Agency (EPA) and the 1990 Amendments to the Federal Clean Air Act (FCAA) for states to develop and adopt the Rate of Progress (ROP) State Implementation Plan (SIP) by November 15, 1993.

The ROP SIP is required to achieve and maintain a volatile organic compound (VOC) emissions level that is 15% below the 1990 base year emissions by 1996 in the El Paso ozone nonattainment area. The affected ozone nonattainment county is El Paso.

The proposed §115.442, concerning Control Requirements, specify control requirements for web-fed and sheet-fed offset lithographic printing presses which use alcohol in the fountain solution, offset lithographic printing press cleaning solutions, and heatset offset lithographic printing press dryer exhaust streams. The proposed §115.443, concerning Alternate Control Requirements, references §115.910 of this title (relating to Alternate Means of Control) for a procedure to receive approval for an alternative control. The proposed §115.445, concerning Testing Requirements, specifies the accepted test methods to show compliance with §115.442.

The proposed §115.446, concerning Monitoring and Recordkeeping Requirements, specifies the frequency, detail, and scope of the recordkeeping and monitoring requirements of this section. The proposed §115.449, concerning Counties and Compliance Schedules, specifies the applicable counties and the compliance date for the new requirements.

The proposed amendments are part of a series of proposed revisions to Chapter 115 (Regulation V, concerning Control of Air Pollution From Volatile Organic Compounds) and the SIP to provide the required RFP reductions in the ozone nonattainment areas as

mandated by the 1990 FCAA Amendments. Since this is an interim step in attaining the ozone standard, only those controls needed to satisfy the requirement will be adopted by the November 15, 1993, deadline. Additional controls are anticipated to be adopted by November 15, 1994 in conjunction with an attainment demonstration requirement in each ozone nonattainment area. By this time, Urban Airshed Modeling (UAM) will be available to facilitate more scientific decision-making regarding the effect of control measure scenarios on ozone levels. The UAM is a quantitative state-of-the-art computer model that will enable the staff to evaluate the effects of various combinations of control measures on ozone.

The EPA has recently provided guidance which modifies in part the States' requirement to submit all rules necessary to meet the ROP reduction by November 15, 1993. Texas will submit rules to meet the ROP reduction in two phases. Phase I will consist of a core set of rules comprising at least 70% of the required reductions. This phase will be submitted by the original deadline of November 15, 1993. Phase II will consist of any remaining percentage toward the 15% net of growth reductions, as well as additional contingency measures to obtain an additional 3.0% of reductions. Phase II will be submitted by November 15, 1994. A commitment listing the rules to achieve the additional percentages and contingency measures will be submitted in conjunction with the Phase I SIP by November 15, 1993.

Lane Hartsock, deputy director of air quality planning, has determined that for each year of the first five-year period the proposed sections are in effect, the annual cost to state and local governments are estimated at 30,000, which would primarily be the result of hiring additional personnel to inspect and monitor these new requirements.

Mr. Hartsock also has determined that for each year of the first five-year period the proposed sections are in effect, the public benefit anticipated as a result of implementing the sections will be satisfaction of FCAA Amendments and EPA requirements, and VOC emission reductions in ozone nonattainment areas which are necessary for the timely attainment of the ozone standard.

Economic costs to small businesses, persons, and businesses required to implement the proposed measures may vary from no cost if the facility already uses compliant solvents and already has or does not need add-on control equipment, to the following estimated costs associated with the expanded abatement, monitoring, and recordkeeping requirements: per facility control unit—\$50,000 in 1994, \$50,000 in 1995, \$50,000 in 1996, and \$50,000 in 1997; per volatile organic compound monitoring unit—\$15,000 in 1994, \$15,000 in 1995, \$15,000 in 1996, and \$15,000 in 1997.

Any costs continuing beyond 1997 would be operating, maintenance, and recordkeeping requirements. All estimates are stated in 1993 dollars with no adjustments for inflation and assume continuing costs equal to those incurred during 1993-1997.

Public hearings on this proposal are scheduled for the following times and places: August 4, 1993, 6:30 p.m., City of El Paso, Council Chambers, Second Floor, Two Civil Center Plaza, El Paso; August 5, 1993, 6:30 p.m., Houston-Galveston Area Council, Second Floor, Conference Room A, 3555 Timmons Lane, Houston; August 5, 1993, 2:30 a.m., City of Arlington, Council Chambers, 101 West Abram Street, Arlington; and August 6, 1993, 11:30 p.m., John Gray Institute, 855 Florida Avenue, Beaumont.

Public comments, both oral and written, on the proposed changes are invited at the hearings. Interrogation or cross-examination is not permitted. Written comments not presented at the hearings must be submitted to the TACB Central Office in Austin no later than August 13, 1993. Material received by the Regulation Development Division by 4:00 p.m. on that date will be considered by the Board prior to any final action on the proposed revisions. Copies of the proposed revisions are available at the Regulation Development Division of the TACB Air Quality Planning Annex located at 12118 North IH-35, Park 35 Technology Center, Building A, Austin, Texas 78753, and at all TACB regional offices. For further information, contact Eddie Mack at (512) 908-1488.

Persons with disabilities who have special communication or other accommodation needs who are planning to attend the hearings should contact the agency at (512) 908-1815. Requests should be made as far in advance as possible.

The new rules are proposed under the Texas Health and Safety Code (Vernon 1990), the Texas Clean Air Act (TCAA), §382.017, which provides the TACB with the authority to adopt rules consistent with the policy and purposes of the TCAA.

*§115.442. Control Requirements.* For the El Paso Area as defined in §115.10 of this title (relating to Definitions), the following control requirements shall apply.

(1) No person shall operate or allow the operation of an offset lithographic printing line that uses solvent-containing ink unless volatile organic compound (VOC) emissions are limited by one of the following.

(A) Any person who owns or operates a heatset web offset lithographic printing press that uses alcohol in the fountain solution shall maintain total fountain solution alcohol to 1.6% or less (by volume). Alternatively, a standard of 3.0% or less (by volume) alcohol may be used if the fountain solution containing alcohol is refrigerated to less than 60 degree Fahrenheit.

(B) Any person who owns or operates a nonheatset web offset lithographic printing facility that uses alcohol in the fountain solution shall eliminate the use of alcohol in the fountain solution. Alterna-

tively, nonalcohol additives or alcohol substitutes can be used to accomplish the total elimination of alcohol use.

(C) Any person who owns or operates a sheetfed offset lithographic printing facility shall maintain the use of alcohol at 5.0% or less (by volume). Alternatively, a standard of 8.5% or less (by volume) alcohol may be used if the fountain solution is refrigerated to less than 60 degree Fahrenheit.

(D) Any person who owns or operates any type of offset lithographic printing press shall be considered in compliance with this regulation if the only VOCs in the fountain solution are in nonalcohol additives or alcohol substitutes, so that the concentration of VOCs in the fountain solution is 3.0% or less (by weight). The fountain solution shall not contain any alcohol.

(E) Any person who owns or operates an offset lithographic printing press shall reduce VOC emissions from cleaning solutions by using cleaning solutions with a 30% or less (as used) VOC content.

(2) No person shall operate or allow the operation of a heatset offset lithographic printing press unless VOC emissions from the press dryer exhaust vent are reduced 90% by weight or a maximum dryer exhaust outlet concentration of 20 parts per million by volume is maintained, whichever is less stringent when the press is in operation.

*§115.443. Alternate Control Requirements.* For all affected persons in the El Paso Area, alternate methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in this section may be approved by the Executive Director in accordance with §115.910 of this title (relating to Alternate Means of Control) if emission reductions are demonstrated to be substantially equivalent.

*§115.445. Testing Requirements.* For the El Paso Area, compliance shall be determined by applying the following test methods, as appropriate:

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

(2) Test Method 24 (40 Code of Federal Regulation 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 Regulation 60, Appendix A) for determining total gaseous nonmethane organic emissions as carbon;

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

(5) United States Environmental Protection Agency (EPA) 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) additional performance test procedures described in 40 Code of Federal Regulation 60.444.

*§115.446. Monitoring and Recordkeeping Requirements.* For the El Paso Area, the following monitoring and recordkeeping requirements shall apply.

(1) The owner or operator of a heatset offset lithographic printing press shall install, calibrate, maintain, and operate a temperature monitoring device, according to the manufacturer's instructions, at the outlet of the control device. The temperature monitoring device shall be equipped with a continuous recorder and shall have an accuracy of 0.5 degree Fahrenheit.

(2) The owner or operator of any offset lithographic printing press shall install and maintain monitors to continuously measure and record operational parameters of any emission control device installed to meet applicable control requirements on a regular basis. 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;

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

(C) the exhaust gas VOC concentration of any carbon adsorption system, as defined in §115.10 of this title (relating to Definitions), to determine if breakthrough has occurred; and

(D) the dates and reasons for any maintenance and repair of the required control devices and the estimated quantity and duration of VOC emissions during such activities.

(3) The dryer pressure shall be maintained lower than the press room air pressure such that air flows into the dryer at all times. A 100% emissions capture efficiency for the dryer shall be demonstrated using an air flow direction measuring device.

(4) The owner or operator of any offset lithographic printing press shall monitor fountain solution alcohol concentration with a refractometer or a hydrometer that is corrected for temperature at least once per eight-hour shift or once per batch, whichever is longer. The refractometer or hydrometer shall have a visual, analog, or digital readout with an accuracy of 0.5% VOC. A standard solution shall be used to calibrate the refractometer for the type of alcohol used in the fountain. The VOC content of the fountain solution may be monitored with a conductivity meter if it is determined that a refractometer or hydrometer cannot be used for the type of VOCs in the fountain solution. The conductivity meter reading for the fountain solution shall be referenced to the conductivity of the incoming water.

(5) The owner or operator of any offset lithographic printing press using refrigeration equipment on the fountain shall install, maintain, and continuously operate a temperature monitor of the fountain solution reservoir. The temperature monitor shall be attached to a continuous recording device such as a strip chart, recorder, or computer.

(6) For any offset lithographic printing press with continuous cleaning equipment, flow meters are required to monitor water and cleaning solution flow rates. The flow meters shall be calibrated so that the VOC content of the mixed solution complies with the requirements of §115.442 of this title (relating to Control Requirements).

(7) The owner or operator of any offset lithographic printing press shall maintain the results of any testing conducted at an affected facility in accordance with the provisions specified in §115.445 of this title (relating to Testing Requirements).

(8) The owner or operator of any offset lithographic printing press shall maintain all records at the affected facility for at least two years and make such records available upon request to representatives of the Texas Air Control Board, United States Environmental Protection Agency, or the local air pollution agency having jurisdiction in the area.

*§115.449. Counties and Compliance Schedules.* All affected persons in El Paso County shall be in compliance with §115.442 of this title (relating to Control

Requirements); §115.443 of this title (relating to Alternate Control Requirements); §115.445 of this title (relating to Testing Requirements); and §115.446 of this title (relating to Monitoring and Recordkeeping Requirements) as soon as practicable, but no later than December 31, 1994.

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 July 5, 1993.

TRD-9325260

Lane Hartssock  
Deputy Director, Air Quality  
Planning  
Texas Air Control Board

Proposed date of adoption: November 12, 1993

For further information, please call: (512) 908-1451

## Subchapter F. Miscellaneous Industrial Sources

### Degassing or Cleaning of Stationary and Transport Vessels

#### • 31 TAC §§115.541-115.547, 115.549

The Texas Air Control Board (TACB) proposes new §§115.541-115.547 and §115.549, concerning Degassing or Cleaning of Stationary and Transport Vessels. The new undesignated head has been developed in response to a requirement by the United States Environmental Protection Agency (EPA) and the 1990 Amendments to the Federal Clean Air Act (FCAA) for states to develop and adopt the Rate of Progress (ROP) State Implementation Plan (SIP) by November 15, 1993. The ROP SIP is required to achieve and maintain a volatile organic compound (VOC) emissions level that is 15% below the 1990 base year emissions by 1996 in the Beaumont/Port Arthur, Dallas/ Fort Worth, El Paso, and Houston/Galveston ozone nonattainment areas. The counties affected by those amendments are Brazoria, Chambers, Fort Bend, Galveston, Hardin, Harris, Jefferson, Liberty, Montgomery, Orange, and Waller.

The new §115.541, concerning Emission Specifications, applies the same emission limits proposed for the Transfer of Volatile Organic Compounds, §115.211 of this title (concerning Loading and Unloading of Volatile Organic Compounds) to degassing or cleaning of vessels. The new §115.542, concerning Control Requirements, requires vapors from degassing or cleaning of vessels to be controlled through vapor-tight and leak-free fittings and piping to a vapor recovery system. The new §115.543, concerning Alternate Control Requirements, provides for facilities to apply to the Executive Director for alternate control requirements which are substantially equivalent to those required by §115.542. The new §115.544, concerning In-