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# Texas Register

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equipment maintenance, such as replacement of the carbon in a carbon adsorption unit; and

(B) the results of all tests conducted at the facility in accordance with the requirements described in subsection (a)(9) of this section.

#### 15.175. Exemptions.

(a)-(d) (No change).

(e) An owner or operator who operates a remote reservoir cold solvent cleaner which uses solvent with a volatility equal to less than 0.6 psia (4.1 kpa) measured at 70 degrees fahrenheit (38 degrees celsius) and which has a drain area less than 16 in<sup>2</sup> (10 cm<sup>2</sup>) and who properly disposes of the solvent in enclosed containers is exempt from §115.172 (a)-(b) of this title relating to Cold Solvent Cleaning).

(f) After December 31, 1987, only those degreasing operations located on any property in Dallas and Tarrant Counties which, when combined, would emit, when controlled, a combined weight of volatile organic compounds less than three pounds (1.4 kg) in any consecutive 24-hour period will be exempt from the provisions of 15.172 (a)-(b) of this title (relating to Cold Solvent Cleaning), §115.173 (a)-(b) of this title (relating to Open-Top Vapor Degreasing), and §115.174 (a)-(b) of this title (relating to Conveyorized Degreasing).

#### 15.176. Counties and Compliance Sched-

(a)-(d) (No change).

(e) The provisions of §115.172(c) of this title (relating to Cold Solvent Cleaning), §115.173(c) of this title (relating to Open-Top Vapor Degreasing), and §115.174(c) of this title (relating to Conveyorized Degreasing) shall apply only within Dallas and Tarrant Counties. All affected persons shall be in compliance with these sections as soon as practicable but no later than August 31, 1990.

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

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

D-8805435 Allen Ell Bell  
Executive Director  
Texas Air Control Board

Proposed date of adoption: September 16, 1988

For further information, please call: (512) 515-7111, ext. 354

### Surface Coating Processes

#### 31 TAC §§115.191-115.193

The Texas Air Control Board (TACB) proposes amendments to §§115.191-115.193, concerning surface coating processes in Tarrant, Dallas, El Paso, Galveston, Gregg,

Harris, Jefferson, Nueces, Orange, Tarrant, and Victoria counties. The proposed amendment to §115.191 deletes the emission limitations expressed as pounds of volatile organic compounds (VOC) per gallon of solids for automobile refinishing and architectural coatings. Limitations expressed as pounds of VOC per gallon of coating (minus water and exempt solvent) are retained. However, the proposed amendment clarifies that emission calculations for surface coating operations performed to satisfy the conditions for approval of alternate emission reductions (bubbles), alternate means of control, or other demonstrations of equivalency with specified limitations will be based on the pounds of VOC per gallon of solids for all affected coatings. The proposed amendments also clarify that emission limits are to be determined for coatings "as delivered to the application system" rather than "as applied" to avoid confusion regarding the potential consideration of transfer efficiency in determining compliance. The proposed amendments specify additional test procedures to be used to determine compliance with applicable control requirements and the recordkeeping which must be maintained at all affected surface coating operations or sales outlets in Dallas and Tarrant counties. The proposed amendment to §115.192 specifies test methods to be used to determine compliance with applicable control requirements on add-on equipment and the recordkeeping which must be maintained at all affected surface coating operations in Dallas and Tarrant counties. The proposed amendment to §115.193 establishes an exemption for all surface coating operations in Dallas and Tarrant counties after August 31, 1990, which emit less than 100 pounds of VOC per day or 10 tons of VOC per year. Exempted facilities will be required to maintain records sufficient to document the applicability of the conditions of the exemption. Additional proposed amendments to these sections will clarify and simplify the enforcement of current requirements. These 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 and local units of government or for small businesses not expressly required to comply with the sections as proposed. The test methods and miscellaneous clarifications proposed by these sections are in common practice within the affected industry and are not expected to result in any capital or operational expense. The economic costs to individuals and businesses required to implement the proposed recordkeeping provisions, in terms of the annual cost per facility are established to be zero in fiscal year 1989, \$1,700 in fiscal year 1990, and \$5,000 for each year from 1990-1993.

The economic costs to smaller surface coating operations required to comply with the proposed control measures associated with the lowering of the exemption level in Dallas and Tarrant counties may vary from zero if compliant coatings are readily available for

the specific application, up to an estimated annual capital and operating cost of \$134,000. No information is currently available to determine how many smaller sources may potentially be affected by the lower exemption level; therefore, an estimate of total costs has not been attempted. In addition, the United States Environmental Protection Agency has requested the TACB to solicit comments regarding the impact of further reducing the exemption to include only those surface coating operations which emit less than three pounds of VOC per hour or 15 pounds of VOC per day. The estimated potential cost to these facilities would be comparable to larger operations but with a much smaller emission reduction benefit for an estimated benefit of \$88,000 per ton of VOC reduced.

Les Montgomery, P.E., director of technical support and regulation development program, has determined that for each of the first five years the sections as proposed are in effect, the public benefit anticipated as a result of implementing the sections will be more effective and consistent enforcement of controls for reducing emissions of VOC 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; 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.

#### §115.191. Emission Limitations.

(a) No person may cause, suffer, allow, or permit volatile organic compound emissions from the surface coating processes (defined in §101.1 of this title (relating to Definitions)) affected by paragraphs (1)-(11) of this subsection to exceed the specified emission limits, which are based on the daily weighted average of all coatings delivered to the application systems, except [for those in paragraph (8) of this subsection, as detailed,] for those in paragraph (10) of this subsection which are based on paneling surface area, and those in

paragraph (11) of this subsection which are based on the volatile organic compound content of architectural coatings sold or offered for sale. Emission calculations for surface coating operations performed to satisfy the conditions of §101.23 of this title (regarding Alternate Emission Reduction ("Bubble") Policy), §115.401 of this title (regarding Alternate Means of Control), or other demonstrations of

equivalency with the specified emission limits in this section shall be based on the pounds of volatile organic compounds per gallon of solids for all affected coatings. Exempt solvent as used in this section shall mean any solvent consisting of compounds excluded from the definition of volatile organic compound in §101.1 of this title (relating to Definitions).

(1)-(7) (No change).

(8) Automobile and light-duty truck coating.

[(A) The following volatile organic compound emission limits shall be achieved, on the basis of solvent content per gallon of coating (minus water) applied, as soon as practicable but no later than December 31, 1982:

... ..  
... ..  
... ..  
... ..  
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Operation (including applica- tion, flashoff, and oven areas)	VOC Emission Limitation	
	pounds per gallon	kg per liter
prime application <sup>1</sup> (body)	1.2	0.15
(front-end sheet metal)	5.6	0.67
primer surfacer application	3.0	0.36
topcoat application <sup>2,3</sup>	5.2	0.62
final repair application <sup>2</sup>	6.5	0.78]

(B) The following volatile organic compound emission limits shall be achieved, on the basis of solvent content per gallon of coating (minus water) applied, as soon as practicable but no later than December 31, 1986:

Operation (including application, flashoff, and oven areas)	VOC Emission Limitation	
	pounds per gallon	kg per liter
prime application <sup>1</sup> (body and front-end sheet metal)	1.2	0.15
primer surfacer application	2.8	0.34
topcoat application <sup>2,3</sup>	5.2	0.62
final repair application <sup>2</sup>	6.5	0.78]

(A)[(C)] The following volatile organic compound emission limits shall be achieved, on the basis of solvent content per gallon of coating (minus water) applied, as soon as practicable but no later than December 31, 1987:

Operation (including application, flashoff, and oven areas)	VOC Emission Limitation	
	pounds per gallon	kg per liter
prime application <sup>[1]</sup> (body and front-end sheet metal)	1.2	0.15
primer surfacer application	2.8	0.34
topcoat application <sup>[2]</sup>	2.8	0.34
final repair application <sup>[2]</sup>	4.8	0.58

<sup>[1]</sup> Weighted average over a calendar month.

<sup>2</sup> Arithmetic average of all coatings in stock for use in the process.

<sup>3</sup> To be applied using electrostatic spray equipment in at least 75% of the automatic spray stations in the first topcoat application area.]

(B)(D) Volatile organic compound emissions from the coatings or solvents used in automobile refinishing in Dallas and Tarrant counties shall be based on an assumed 30% transfer efficiency from an air spray applicator or equivalent, unless otherwise specified in an alternate means of control approved by the Executive Director in accordance with §115.401 (relating to Alternate Means of Control), and shall not exceed the following limits:

(i) 2.1 pounds per gallon (0.25 kg/liter) of coating (minus water and exempt solvent) delivered to application systems [or 3.0 pounds per gallon (0.36 kg/liter) of solids applied] for primers or primer/surfacers;

(ii) 5.2 pounds per gallon (0.62 kg/liter) of coating (minus water and exempt solvent) delivered to application systems [or 17.9 pounds per gallon (2.13 kg/liter) of solids applied] for acrylic enamel coatings;

(iii) 5.0 pounds per gallon (0.60 kg/liter) of coating (minus water and exempt solvent) delivered to application systems [or 16.1 pounds per gallon (1.92 kg/liter) of solids applied] for alkyd enamel coatings;

(iv) 5.2 pounds per gallon (0.62 kg/liter) of coating (minus water and exempt solvent) delivered to application systems [or 17.9 pounds per gallon (2.13 kg/liter) of solids applied] for clear coatings;

(v) 6.2 pounds per gallon (0.74 kg/liter) of coating (minus water and exempt solvent) delivered to application systems [or 41.3 pounds per gallon (4.92 kg/liter) of solids applied] for base coatings;

(vi) 6.2 pounds per gallon (0.74 kg/liter) of coating (minus water and exempt solvent) delivered to application systems [or 41.3 pounds per gallon (4.92 kg/liter) of solids applied] for lacquers; and

(vii) 1.4 pounds per gallon (0.17 kg/liter) of wipe-down solutions [solvents].

(C)(E) Automobile refinishing operations in Dallas and Tarrant counties shall minimize volatile organic compound emissions during equipment cleanup by the following procedures:

(i)-(iii) (No change.)

(9) Miscellaneous metal parts and products coating.

(A)-(B) (No change).

(C) All VOC emissions from solvent washings shall be included [considered] in determination of compliance

with the emission limitations in paragraph (9)(A) of this subsection unless the solvent is directed into containers that prevent evaporation into the atmosphere.

(10) (No change).

(11) Architectural coating. The volatile organic compound content of any coating sold or offered for sale as an architectural coating in Dallas and Tarrant counties shall not exceed the following limits:

(A) 0.7 pounds per gallon (0.08 kg/liter) of coating (minus water and exempt solvent) [or 3.0 pounds per gallon (0.36 kg/liter) of solids] for exterior flat latex paints;

(B) 0.8 pounds per gallon (0.10 kg/liter) of coating (minus water and exempt solvent) [or 3.1 pounds per gallon (0.37 kg/liter) of solids] for interior flat latex paints;

(C) 2.2 pounds per gallon (0.26 kg/liter) of coating (minus water and exempt solvent) [or 5.0 pounds per gallon (0.60 kg/liter) of solids] for non-flat or washable flat latex paints;

(D) 3.5 pounds per gallon (0.42 kg/liter) of coating (minus water and exempt solvent) [or 7.6 pounds per gallon (0.90 kg/liter) of solids] for interior alkyd paints;

(E) 4.0 pounds per gallon (0.48 kg/liter) of coating (minus water and exempt solvent) [or 8.9 pounds per gallon (1.06 kg/liter) of solids] for exterior alkyd paints;

(F) 4.5 pounds per gallon (0.54 kg/liter) of coating (minus water and exempt solvent) [or 11.5 pounds per gallon (1.37 kg/liter) of solids] for epoxy paints;

(G) 6.0 pounds per gallon (0.72 kg/liter) of coating (minus water and exempt solvent) [or 31.6 pounds per gallon (3.76 kg/liter)] for exterior stains;

(H) 7.0 pounds per gallon (0.84 kg/liter) of coating (minus water and exempt solvent) [or 100.0 pounds per gallon (11.90 kg/liter) of solids] for interior stains;

(I) 4.5 pounds per gallon (0.54 kg/liter) of coating (minus water and exempt solvent) [or 11.5 pounds per gallon (1.37 kg/liter) of solids] for urethane coatings;

(J) 4.5 pounds per gallon (0.54 kg/liter) of coating (minus water and exempt solvent) [or 11.5 pounds per gallon

(1.37 kg/liter) of solids] for alkyd varnishes; and

(K) 5.6 pounds per gallon (0.67 kg/liter) of coating (minus water and exempt solvent) [or 23.4 pounds per gallon (2.79 kg/liter) of solids] for nitrocellulose-based lacquers.

(b) Compliance with subsection (a) [paragraphs (a)(8)(D) and (a) (11)] of this section shall be determined by applying the following test methods, as appropriate:

(1) Test Method 24 (40 Code of Federal Regulations 60, Appendix A) with a one-hour bake;

(2) ASTM Test Methods D 1186-06.01, D 1200-06.01, D 3794-06.01, [D 244-83, D 323-72, D 97-66,] D 2832-69, D 1644-75, and D 3960-81;

(3) Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink, and Other Coatings (EPA 450/3-84-01, December, 1984); [or]

(4) Additional test procedures described in 40 Code of Federal Regulations 60.446; or

(5)[(4)] Equivalent test method approved by the executive director.

(c) Any person in Dallas and Tarrant counties affected by this section shall satisfy the following recordkeeping requirements.

(1) A material data sheet shall be maintained which documents the volatile organic compound content, composition, and other relevant information regarding each coating and solvent available for use in the affected surface coating processes sufficient to determine continuous compliance with applicable control limits.

(2) Records shall be maintained of the quantity and type of each coating and solvent consumed during the specified averaging period if any of the coatings, as delivered to the coating application system, exceed the applicable control limits. Such records shall be sufficient to calculate the applicable weighted average of volatile organic compounds for all coatings.

(3) Records shall be maintained of any testing conducted at an affected facility in accordance with the provisions specified in subsection (b) of this section.

(4) Records required by paragraphs (1)-(3) of this subsection shall be maintained for at least two years and shall be available for inspection by representatives of the Texas Air Control Board or local air pollution control agency.

**§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: