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Facilities for Loading and Unloading of Volatile Organic Compounds

• 31 TAC §§115.111, §115.113

The Texas Air Control Board (TACB) proposes amendments to §§115.111 and §115.113, concerning facilities for loading and unloading of volatile organic compounds (VOC) in Brazoria, Dallas, El Paso, Galveston, Gregg, Harris, Jefferson, Nueces, Orange, Tarrant, and Victoria counties. The proposed amendment to §115.111 requires the performance of an inspection for gasoline leaks during the loading of tank-trucks at gasoline terminals and the discontinuance of gasoline transfers until observed leaks are repaired. The proposed amendment also requires annual leak testing of all tank-truck tanks loaded in Dallas, El Paso, and Tarrant counties in accordance with §§115.261-115.264 of this title (relating to Control of Volatile Organic Compound Leaks from Gasoline Tank-Trucks in Dallas, El Paso, Harris, and Tarrant Counties). The proposed amendments specify the test methods to be used to determine compliance with applicable control requirements and the recordkeeping which must be maintained at all affected gasoline terminals in Dallas and Tarrant counties. The proposed amendment to §115.113 requires gasoline terminals to begin maintaining necessary records no later than August 31, 1990. 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 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 proposed sections are in effect there will be no fiscal implications for state or local government or small businesses as a result of enforcing or administering the sections. Inspection requirements, test methods, and recordkeeping provisions proposed by these sections 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 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 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; 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.

**§115.111. Throughput and Control Requirements.** No person shall permit the loading or unloading to or from any facility having 20,000 gallons (75,708 liters) or more throughput per day (averaged over any consecutive 30-day period) of volatile organic compounds with a true vapor pressure equal to or greater and 1.5 psia (10.3 kPa) under actual storage conditions, unless the following emission control requirements are met by the dates specified in §115.113 of this title (relating to Compliance Schedule and Counties).

(1) (No change.)

(2) Gasoline terminal size and additional emission control requirements are as follows.

(A)-(D) (No change.)

(E) Volatile organic compound vapors from gasoline terminals located in Dallas and Tarrant counties and having 100,000 gallons (378,541 liters) or more throughput per day [(averaged over any consecutive 30-day period)] shall be reduced to a level not to exceed 0.33 pounds of volatile organic compounds from the vapor recovery system vent per 1,000 gallons (40 mg/liter) of gasoline transferred.

(F) (No change.)

(3) (No change.)

(4) Vapor recovery systems and loading equipment at gasoline terminals must be designed and operated to meet the following conditions:

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

(C) no avoidable liquid leaks shall exist during loading and unloading operations. Inspection for leaks during gasoline dispensing operations shall be conducted by the owner or operator of

the gasoline terminal or the owner or operator of the tank-truck. Gasoline loading or unloading through the affected transfer lines shall be discontinued immediately when a leak is observed and shall not be resumed until the observed leak is repaired.

(5) Gasoline tank-truck tanks being loaded in Dallas, El Paso, Harris, and Tarrant Counties [County] must have been leak tested within one year, in accordance with the requirements of §§115.261-115.264 of this title (relating to Control of Volatile Organic Compound Leaks From Gasoline Tank-Trucks in Dallas, El Paso, Harris, and Tarrant Counties), as evidenced by prominently displayed certification, affixed near the DOT certification plate.

(6) Compliance with paragraph (2) of this subsection shall be determined by applying the following test methods, as appropriate:

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

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

(C) 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;

(D) additional test procedures described in 40 Code of Federal Regulations 60.503, c, d, e, and f; or

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

(7) The owner or operator of any gasoline terminal in Dallas or Tarrant County shall maintain the following information at the facility for at least two years and shall make such information available to representatives of the Texas Air Control Board or local air pollution control agency having jurisdiction in the area, upon request:

(A) a daily record of the total throughput of gasoline loaded at the facility; and

(B) for gasoline terminals having 20,000 gallons (75,708 liters) or more throughput per day:

(i) a comprehensive record of all tank-trucks loaded, including

certification number of the delivery vessel and the date of the last leak testing required by paragraph (5) of this section;

(ii) a daily record of the certification number of all delivery vessels loaded at the affected terminal;

(iii) a daily record of the number of delivery vessels loaded at the terminal and the quantity of gasoline loaded to each delivery vessel; and

(iv) a record of the results of any testing conducted at the terminal in accordance with the provisions specified in paragraph (6) of this subsection.

§115.113. *Compliance Schedule and Counties.* All affected persons in the counties and for the facilities specified as follows shall be in compliance with the rule paragraphs specified as soon as practicable but no later than the date shown:

Rule Paragraphs	Affected Facility	Counties Where Rule Is Applicable	Final Compliance Date	Final Control Plan Submittal Date
Paragraphs (1) and (3) of §115.111 of this title (relating to Throughput and Control Requirements).	Volatile Organic Compound Loading Facilities	Brazoria, Dallas, El Paso, Galveston, Harris, Jefferson, Nueces, Orange, Victoria, and Tarrant	12/31/73  2/29/80	Previously Submitted  Previously Submitted
Paragraphs (2)(A), (2)(C), and (3) of §115.111 of this title (relating to Throughput and Control Requirements).	Gasoline Terminals	Brazoria, Dallas, El Paso, Galveston, Gregg, Harris, Jefferson, Nueces, Orange, Tarrant, and Victoria	12/31/82	12/31/79

Rule Paragraphs	Affected Facility	Counties Where Rule Is Applicable	Final Compliance Date	Final Control Plan Submittal Date
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Paragraph (4) of §115.111 of this title (relating to Throughput and Control Requirements).	Gasoline Terminals	Brazoria, Dallas, El Paso, Galveston, Gregg, Harris, Jefferson, Nueces, Orange, Tarrant, and Victoria	12/31/82	7/1/81
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Paragraph (5) of §115.111 of this title (relating to Throughput and Control Requirements).	Gasoline Terminals	Harris	12/31/82	7/1/81
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Paragraphs (2)(B) and (2)(D) of §115.111 of this title (relating to Throughput and Control Requirements).	Gasoline Terminals 500,000 gal (1,892,706 L) Throughput per day	Harris	12/31/86	12/31/83
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Paragraphs (2)(E) and (2)(F) of §115.111 of this title (Relating to Throughput and Control Requirements).	Gasoline Terminals 100,000 gal (378,541 L) Throughput per day	Dallas and Tarrant	12/31/87	12/31/85
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<u>Paragraph (7) of §115.111 of this title (Relating to Throughput and Control Requirements).</u>	<u>Gasoline Terminals</u>	<u>Dallas and Tarrant</u>	<u>8/31/90</u>	<u>8/31/89</u>
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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-8805439 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

## Filling of Gasoline Storage Vessels (Stage I)

### • 31 TAC §§115.131, 115.132, 115.134, 115.135

The Texas Air Control Board (TACB) proposed amendments to §§115.131, 115.132, 115.134, and 115.135, concerning filling of gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities in Brazoria, Dallas, El Paso, Galveston, Harris, and Tarrant counties. The proposed amendment to §115.131 requires annual tank-truck tank leak testing to be performed in accordance with the requirements of §§115.261-115.264 of this title, (relating to Control of Volatile Organic Compound (VOC) Leaks from Gasoline Tank-Trucks in Dallas, El Paso, Harris, and Tarrant Counties). The proposed amendment also specifies the test methods to be used to determine compliance with the applicable control requirements and the recordkeeping which must be maintained at all affected motor vehicle fuel dispensing facilities in Dallas and Tarrant counties. The proposed amendment to §115.132 requires the performance of an inspection for gasoline leaks during the transfer of gasoline from the tank-truck and the discontinuance of gasoline transfer until observed leaks are repaired. The proposed amendment to §115.134 deletes the current exemption for stationary containers of nominal capacity less than 2,000 gallons if installed before December 10, 1976. The proposed amendment to §115.135 requires motor vehicle fuel dispensing facilities to begin maintaining necessary records no later than August 31, 1990. 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.

Bonnie 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 will be no fiscal implications for the state and local units of government or for small businesses not expressly required to comply with these sections as proposed. The inspection requirements and test methods proposed by these sections are in common practice within the affected industry and are not expected to result in additional capital or operational expense. The economic costs to individuals required to comply with

the proposed recordkeeping provisions are considered insignificant.

Les Montgomery, 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; 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.

**§115.131. Control Requirements.** No person shall transfer, or allow the transfer of, gasoline from any deliver vessel into a stationary storage container with a nominal capacity greater than 1,000 gallons (3,785 liters) which is located at a motor vehicle fuel dispensing facility unless the following conditions are met:

(1) (No change.)

(2) The displaced vapors from the storage container are processed by a vapor recovery system which reduces the emissions of volatile organic compounds to the atmosphere to not more than 0.8 [1.2] pounds per 1,000 gallons (93 mg/liter) [(140 mg/liter)] of gasoline transferred.

(3) In Dallas, El Paso, Harris, and Tarrant Counties, the gasoline tank-truck tank has been inspected for leaks within one year in accordance with the requirements of §§115.261-115.264 of this title (relating to Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks in Dallas, El Paso, Harris, and Tarrant Counties), as evidenced by a prominently displayed certification affixed near the DOT certification plate.

(4) The owner or operator of any motor vehicle fuel dispensing facility in Dallas or Tarrant Counties subject to the control requirements of this section shall maintain, for at least one year, a record of the dates on which gasoline was delivered to the dispensing facility and the leak test certification number, required by paragraph (3) of this subsection, of each delivery vessel from which gasoline was transferred to the facility.

(5) Compliance with this section shall be determined by applying the following test methods, as appropriate:

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

(B) Test Method 18 (40 Code of Federal Regulations 60, Appendix A) for determining gaseous organic compound emissions by gas chromatography;

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

(D) 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;

(E) Test Method 21 (40 Code of Federal Regulations 60, Appendix A) for determining volatile organic compound leaks; or

(F) equivalent test method approved by the executive director.

**§115.132. Approved Vapor Balance System.** [When] A vapor balance system will be assumed [is used] to comply with the specified emission limitation [provisions] of §115.131(2) of this title (relating to Control Requirements), if all other provisions of §115.131 of this title are satisfied and [the balance system will be assumed to meet the specified emission limitations if] all of the following additional conditions are met.

(1) (No change.)

(2) No gasoline leaks exist anywhere in the liquid transfer system. Inspection for leaks during gasoline transfer shall be conducted. Gasoline transfer shall be discontinued immediately when a leak is observed and shall not be resumed until the observed leak is repaired.

(3)-(7) (No change.)

**§115.134. Exemptions.** Transfers to the