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Texas Register

Volume 13, Number 44, June 7, 1988

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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-8805438

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

Water Separation

• 31 TAC §§115.141-115.144

The Texas Air Control Board (TACB) proposes amendments to §§115.141-115.144, concerning water separation in Brazoria, Dallas, El Paso, Galveston, Gregg, Harris, Jefferson, Nueces, Orange, Tarrant, and Victoria counties. The proposed amendment to §115.141 requires all facilities other than petroleum refineries in Dallas and Tarrant counties to implement specified controls on any volatile organic compound (VOC) water separator which separates materials having a true vapor pressure of VOC equal to or greater than 0.5 psia regardless of daily material throughput. The proposed amendment to §115.142 require similar controls on separators located at Petroleum refineries in Dallas and Tarrant counties. The proposed amendment to §115.143 eliminates the exemption for VOC water separators in Dallas and Tarrant counties used exclusively in conjunction with the production of crude oil or condensate after August 31, 1990. The proposed amendment also specifies recordkeeping requirements for exempt VOC water separators in Dallas and Tarrant counties. The proposed amendment to §115.144 specifies that VOC water separators required to implement controls as a result of the proposed changes in §§115.141-115.143 shall be in compliance 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.

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. No economic costs to businesses required to comply with these proposed measures are anticipated since no sources affected by the proposed sections have been identified in Dallas and Tarrant counties. However, the TACB is soliciting comments from any affected sources of which the agency is unaware.

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.

§115.141. Facilities Other Than Petroleum Refineries.

(a) No person shall use any compartment of any single or multiple compartment volatile organic compound water separator, which compartment separates 200 gallons (757 liters) or more a day of materials [volatile organic compounds] having a true vapor pressure of volatile organic compounds equal to or greater than 1.5 psia (10.3 kPa) from any equipment in a facility other than a petroleum refinery which is processing, treating, storing, or handling volatile organic compounds, unless such compartment is controlled in one of the following ways.

(1)-(2) (No change.)

(3) The compartment is equipped with a vapor recovery system which reduces the emissions such that the true partial [vapor] pressure of the volatile organic compound vapors in vent gases to the atmosphere will not exceed a level of 1.5 psia (10.3 kPa).

(b) No person in Dallas and Tarrant counties shall use any compartment of any single or multiple compartment volatile organic compound water separator, which compartment separates materials having a true vapor pressure of volatile organic compounds equal to or greater than 0.5 psia (3.4 kPa) from any

equipment in a facility other than a petroleum refinery which is processing, treating, storing, or handling volatile organic compounds, unless such compartment is controlled in one of the following ways.

(1) The compartment has all openings sealed and totally encloses the liquid contents. All gauging and sampling devices shall be vapor-tight except during gauging or sampling.

(2) The compartment is equipped with a floating roof or internal floating cover which will rest on the surface of the contents and be equipped with a closure seal or seals to close the space between the roof edge and tank wall. All gauging and sampling devices shall be vapor-tight except during gauging or sampling.

(3) The compartment is equipped with a vapor recovery system which reduces the emission such that the true partial pressure of the volatile organic compound vapors in vent gases to the atmosphere will not exceed a level of 0.5 psia (3.4 kPa).

§115.142. Petroleum Refineries.

(a) No person shall use any compartment of any single or multiple compartment volatile organic compound water separator, which compartment separates 200 gallons (757 liters) or more a day of materials [volatile organic compounds] having a true vapor pressure of volatile organic compounds of 0.5 psia (3.4 kPa) or greater from any equipment in a petroleum refinery which is processing, refining, treating, storing, or handling volatile organic compounds, unless such compartment is controlled in one of the following ways.

(1)-(2) (No change.)

(b) No person in Dallas and Tarrant counties shall use any compartment of any single or multiple compartment volatile organic compound water separator, which compartment separates materials having a true vapor pressure of volatile organic compounds of 0.5 psia (3.4 kPa) or greater from any equipment in a petroleum refinery which is processing, refining, treating, storing, or handling volatile organic compounds, unless such compartment is controlled in one of the following ways.

(1) The compartment has all openings sealed and totally encloses the liquid contents. All gauging and sampling devices shall be vapor-tight except during gauging or sampling.

(2) The compartment is equipped with a floating roof or internal floating cover which will rest on the surface of the contents and be equipped with a closure seal or seals to close the space between the roof and cover and the tank wall. All gauging and sampling devices

be vapor-tight except during gauging and sampling.

43. Exemptions.

(a) Volatile organic compound separators used exclusively in conjunction with the production of crude oil or gas are exempt from the provisions of §115.141 of this title (relating to Facilities Other Than Petroleum Refineries) and §115.142 of this title (relating to Petroleum Refineries).

(b) After August 31, 1990, subsection (a) of this section shall no longer be applicable in Dallas and Tarrant counties.

(c) Any person who operates a single or multiple compartment volatile organic compound water separator in Dallas or Tarrant counties without the controls specified in §115.141(b) of this title (relating to Facilities Other Than Petroleum Refineries) or §115.142(b) of this title (relating to Petroleum Refineries) shall maintain complete and up-to-date records sufficient to document that all materials which may enter the separator have true vapor pressures of volatile organic compounds less than 0.5 pounds per square inch atmospheric including the names and true vapor pressures of all

such materials stored, processed, or handled at the affected property, and any other operational information necessary to demonstrate continuous compliance with the applicable exemption criteria.

§115.144. Compliance Schedule and Counties. All persons in the counties listed as follows will be in compliance with the provisions of §115.141 of this title (relating to Facilities Other Than Petroleum Refineries) and §115.142 of this title (relating to Petroleum Refineries) as soon as practicable but no later than the dates shown:

<u>Rule</u>	<u>Counties Where Rule Is Applicable</u>	<u>Final Compliance Date</u>	<u>Final Control Plan Submittal Date</u>
§115.141(a) of this title (relating to Facilities Other Than Petroleum Refineries)	Brazoria Dallas, El Paso, Galveston, Harris, Jefferson, Nueces, Orange, and Victoria	12/31/73	Previously Submitted
	Tarrant	2/29/80	Previously Submitted
§115.142(a) of this title (relating to Petroleum Refineries)	Brazoria Dallas, El Paso, Galveston, Gregg, Harris, Jefferson, Nueces, Orange, Tarrant, and Victoria	12/31/82	12/31/79
<u>§115.141(b) of this title (relating to Facilities Other Than Petroleum Refineries)</u>	<u>Dallas and Tarrant</u>	<u>8/31/90</u>	<u>8/31/89</u>
<u>§115.142(b) of this title (relating to Petroleum Refineries)</u>	<u>Dallas and Tarrant</u>	<u>8/31/90</u>	<u>8/31/89</u>

his agency hereby certifies that the proposal as been reviewed by legal counsel and found to be within the agency's authority to dopt.

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

RD-8805437 Allen Ell Bell
Executive Director
Texas Air Control Board

Proposed date of adoption: September 16, 1988

For further information, please call: (512) 51-5711

Vent Gas Control

31 TAC §§115.162-115.164

The Texas Air Control Board (TACB) proposes amendments to §§115.162-115.164, concerning vent gas control in Brazoria, Dallas, El Paso, Galveston, Harris, Jefferson, Juices, Orange, Tarrant, and Victoria counties. The proposed amendments to §115.162 clarify that the exemption for vent gas streams with emissions exceeding 100 pounds per day of volatile organic compounds (VOC) are based on the concentration of VOC in the vent gas. Reference in the exemption to vents which exceed 250 pounds of VOC per hour is considered unnecessary and will be deleted. In addition, the proposed amendment specifies the test methods to be used to determine compliance with the applicable control limits and the recordkeeping which must be maintained at all affected facilities in Dallas and Tarrant counties. The proposed amendment to §115.164 require all affected 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.

Annemie 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 these sections as proposed. Economic costs to individuals and businesses required to implement the proposed measures are associated only with the recordkeeping requirements and are estimated as follows: The annual cost per facility is estimated to be \$0 for fiscal year 1989, \$1,700 for fiscal year 1990, and \$5,000 per year for fiscal years 1991-1993.

James 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; 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 78728, 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 78728.

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.

§115.162. General Vent Gas Streams. Except for process vent gas streams affected by the provisions of §115.161 of this title (relating to Ethylene from Low-Density Polyethylene Production) and §115.163 of this title (relating to General Vent Gas Streams in Dallas, Harris, and Tarrant Counties), no person may allow a vent gas stream to be emitted from any process vent containing one or more of the specific volatile organic compounds listed in paragraph (1) of this section or one or more compounds which are members of one or more of the classes of volatile organic compounds listed in paragraph (2) of this section unless the vent gas stream is burned properly at a temperature equal to or greater than 1300 degrees fahrenheit (704 degrees celsius) in a smokeless flare or a direct-flame incinerator before it is allowed to enter the atmosphere; alternate means of control may be approved by the Executive Director in accordance with §115.401 of this title (relating to Procedure).

(1)-(2) (No change).

(3) The following vent gas streams are exempt from the requirements of this section.

(A) (No change.)

(B) A vent gas stream with a true partial pressure of the volatile organic compounds specified in paragraphs (1) and (2) of this section less than 0.44 psia (30,000 ppm). [having a combined weight of the volatile organic compounds or classes of compounds specified in paragraphs (1) and (2) of this section greater

than 100 pounds (45.4 kg) in any consecutive 24-hour period but less than 250 pounds (113.4 kg) per hour averaged over any consecutive 24-hour period and having a true partial pressure of the volatile organic compounds specified in paragraphs (1) and (2) of this section less than 0.44 psia (3.0 kPa).]

§115.163. General Vent Gas Streams in Dallas, Harris, and Tarrant Counties.

(a) Except for process vent gas streams affected by the Provisions of §115.161 of this title (relating to Ethylene from Low-Density Polyethylene Production), no person may allow a vent gas stream to be emitted from any process vent located in Dallas, Harris, and Tarrant Counties containing volatile organic compounds unless the vent gas stream is burned properly at a temperature equal to or greater than 1300 degrees fahrenheit (704 degrees celsius) in a smokeless flare or a direct-flame incinerator with a destruction efficiency of 90% or greater before it is allowed to enter the atmosphere; alternate means of control may be approved by the executive director in accordance with §115.401 of this title (relating to Procedure).

(b) The following vent gas streams are exempt from the requirements of this section:

(1) (No change).

(2) In Harris County:

(A) A vent gas stream from any air oxidation synthetic organic chemical manufacturing process[,] with a true partial pressure of volatile organic compounds less than 0.009 psia (612 ppm). [having a combined weight of volatile organic compounds greater than 100 pounds (45.4 kg) in any consecutive 24-hour period but less than 250 pounds (113.4 kg) per hour averaged over a 24-hour period and having a true partial pressure of volatile organic compounds less than 0.009 psia (0.06 kPa), or]

(B) A vent gas stream from any liquid phase polypropylene manufacturing process, any liquid phase slurry high-density polyethylene manufacturing process, and any continuous polystyrene manufacturing process with a true partial pressure of volatile organic compounds less than 0.006 psia (408 ppm). [having a combined weight of volatile organic compounds greater than 100 pounds (45.4 kg) in any consecutive 24-hour period but less than 250 pounds (113.4 kg) per hour averaged over a 24-hour period and having a true partial pressure of volatile organic compounds less than 0.006 psia (0.04 kPa), or]

(C) Any other vent gas