

=  $1.83 \times 10^6$  for propane.

=  $2.41 \times 10^6$  for butane.

s = Standard conditions, 20°C and 760 millimeters of mercury (mm Hg).

25.3.4.7 The total organic compounds mass emissions shall be calculated as follows:

$$E = \frac{\sum_{i=1}^n M_{ei}}{L}$$

(25-2)

where:

E = Mass of total organic compounds emitted per volume of gasoline loaded, mg/L.

$M_{ei}$  = Mass of total organic compounds emitted during testing interval i, mg.

L = Total volume of gasoline loaded, L.

n = Number of testing intervals.

25.3.5 The owner or operator may adjust the emission results to exclude the methane and ethane content in the exhaust vent by any method approved by the Department.

25.4 Recordkeeping. The owner or operator of a facility subject to the requirements of 25.0 of this regulation shall maintain the following records in a readily accessible location for at least five years and shall make these records available to the Department upon verbal or written request.

25.4.1 The tank truck vapor tightness documentation required under 25.2.3 of this regulation shall be kept on file at the terminal in a permanent form available for inspection.

25.4.2 The documentation file for each gasoline tank truck shall be updated at least once per year to reflect current test results as determined by Method 27. This documentation shall include, at a minimum, the following information:

25.4.2.1 Test title: Gasoline Delivery Tank Pressure Test EPA Reference Method 27.

25.4.2.2 Tank owner and address.

25.4.2.3 Tank identification number.

25.4.2.4 Testing location.

25.4.2.5 Date of test.

25.4.2.6 Tester name and signature.

25.4.2.7 Witnessing inspector, if any: Name, signature, and affiliation.

25.4.2.8 Test results: Actual pressure change in five min, recorded in mm of water (average for two runs).

25.4.3 A record of each monthly leak inspection required under 25.2.8 of this regulation shall be kept on file at the terminal. Inspection records shall include, at a minimum, the following information:

25.4.3.1 Date of inspection.

25.4.3.2 Findings (may indicate no leaks discovered or location, nature, and severity of each leak).

25.4.3.3 Leak determination method.

25.4.3.4 Corrective action (date each leak repaired, reasons for any repair interval in excess of 15 calendar days).

25.4.3.5 Inspector name and signature.

25.4.4 The terminal owner or operator shall keep documentation of all notifications required under 25.2.3.4 of this regulation on file at the terminal.

25.4.5 Daily records shall be maintained of gasoline throughput.

25.5 Reporting. The owner or operator of any facility containing sources subject to 25.0 of this regulation shall comply with the requirements in 5.0 of this regulation.

## 26.0 Gasoline Dispensing Facility Stage I Vapor Recovery.

01/11/2002 xx/xx/xxxx

26.1 Applicability

26.1.1 The provisions of Section 26.0 of this regulation apply to any stationary gasoline storage tank located at any gasoline dispensing facility (GDF) in the State of Delaware, except:

26.1.1.1 The following storage tanks shall be subject only to the requirements of subsection 26.3.1.1 of this regulation:

26.1.1.1.1 Any stationary gasoline storage tank that is equipped with a floating roof or its equivalent that has been approved by the Administrator of the U.S. EPA as part of a State Implementation Plan (SIP) or Federal Implementation Plan (FIP) revision.

26.1.1.1.2 Any stationary gasoline storage tank with a capacity of less than 550 gallons [gal] used exclusively for the fueling of farm equipment.

26.1.1.1.3 Any stationary gasoline storage tank with a capacity of less than 2,000 gal that was constructed prior to January 1, 1979.

26.1.1.1.4 Any stationary gasoline storage tank with a capacity of less than 250 gal that was constructed after December 31, 1978.

26.1.1.2 The storage tank or tanks at any gasoline dispensing facility, which never has a monthly throughput of greater than 10,000 gallons of gasoline, shall be subject only to the requirements of subsections 26.3.1.1 and 26.4 of this regulation.

26.1.1.3 The storage tank or tanks at any gasoline dispensing facility that ever exceeds this applicability threshold shall be subject to all of the requirements of Section 26.0 of this regulation, and shall remain subject to these requirements even if its monthly throughput later falls below the exemption throughput.

26.1.2 The requirements of Section 26.0 of this regulation are in addition to all other State and Federal requirements, to include the permitting requirements of 7 DE Admin. Code 1102 of the State of Delaware "Regulations Governing the Control of Air Pollution". Any gasoline dispensing facility that is currently subject to any state or federal rule promulgated pursuant to the Clean Air Act Amendments of 1977 1990 by exceeding an applicability threshold is and shall remain subject to those provisions.

26.1.3 Compliance Schedule

Any stationary gasoline storage tank subject to the requirements of Section 26.0 of this regulation shall be in compliance as follows:

26.1.3.1 Storage tanks located at any facility that first commences operations:

26.1.3.1.1 Before November 15, 1990 and having any monthly throughput of at least 100,000 gallons: no later than November 15, 1993.

26.1.3.1.2 Before November 15, 1990 and having any monthly throughput of greater than 10,000 gallons but less than 100,000 gallons: no later than November 15, 1994.

26.1.3.1.3 On or after November 15, 1990 and before May 15, 1993: no later than May 15, 1993.

26.1.3.1.4 On or after May 15, 1993: upon commencement of operations.

26.1.3.2 The requirements of subsection 26.3.1.2.5 of this regulation are effective on and after May 1, 2003.

26.1.4 Any gasoline dispensing facility with gasoline storage tank or tanks subject to Section 26.0 shall also comply with applicable requirements in Section 36.0 of 7 DE Admin. Code 1124 on or after xx/xx/xxxx.

26.2 Reserved Definitions

26.2.1 Terms being defined in subsection 26.2 are used exclusively for Section 26.0. Other terms not defined herein shall have meanings defined in the Clean Air Act Amendments of 1990 (CAA), 7 DE Admin. Code 1101, or Section 2.0 of 7 DE Admin. Code 1124.

"Monthly Throughput" means the total volume of gasoline dispensed from all the gasoline storage tanks located at a single affected GDF in a calendar month.

26.3 Standards

26.3.1 The owner or operator of any stationary storage tank that is subject to the requirements of Section 26.0 of this regulation shall:

26.3.1.1 Load the stationary gasoline storage tank or tanks by submerged fill using a drop tube that extends to within 150 mm (5.9 in.) from the bottom of the tank.

26.3.1.2 Design, install, operate, and maintain a Stage I Vapor Recovery System that is required in Section 36.0 and operates such that the vapors displaced by the liquid gasoline are returned to the delivery vessel and transported back to the bulk plant or terminal.

26.3.1.2.1 All hoses in the Stage I Vapor Recovery system shall be properly connected.

26.3.1.2.2 All vapor lines, couplers, and adapters used in the gasoline delivery shall be vaportight.

26.3.1.2.3 All adapters and couplers that attach to any vapor line on the storage vessel shall have closures that seal upon disconnect.

26.3.1.2.4 Reserved.

26.3.1.2.5 All Stage I systems shall utilize dual point vapor connections to return vapors from the storage tank to the delivery truck.

26.3.2 The filling of storage tanks subject to the requirements of Section 26.0 of this regulation shall be limited to unloading by vapor-tight gasoline tank trucks or delivery trucks which:

26.3.2.1 ~~meet~~ **Meet** all of the requirements of Section 27.0 of this regulation 7 DE Admin. Code 1124; and

26.3.2.2 ~~are~~ **Are** equipped with vapor return equipment that is compatible with the Stage I Vapor Recovery System installed on the storage tank.

26.4 Recordkeeping. The owner or operator of any stationary gasoline storage tank exempted from the requirements of Section 26.0 of this regulation pursuant to subsection 26.1.1.2 of this regulation shall keep on the facility premises and in a form acceptable to the Department, records showing monthly throughput. These records shall be retained for at least five (5) years from the date of record, and shall be made immediately available to the Department upon request.

26.5 Reporting. The owner or operator of any facility containing sources subject to Section 26.0 of this regulation shall also comply with the requirements of Section 5.0 of this regulation 7 DE Admin. Code 1124 "Compliance Certification, Recordkeeping, and Reporting Requirement for Non-Coating Sources".

## 27.0 Gasoline Tank Trucks

01/11/1993

27.1 Applicability. The provisions of 27.0 of this regulation apply to any gasoline tank truck equipped for gasoline vapor collection. No exemptions are allowable based on number of gasoline tank trucks or total quantity of volatile organic compound (VOC) emissions.

27.2 Standards. Each owner or operator of a gasoline tank truck subject to 27.0 of this regulation shall ensure that the gasoline tank truck:

27.2.1 Is a vapor-tight gasoline tank truck as demonstrated by Method 27 of **Appendix A** of 40 CFR Part 60 (July 1, 1992).

27.2.2 Displays a sticker near the Department of Transportation Certification plate required by 49 CFR 178.340-10b, that:

27.2.2.1 Shows the date that the gasoline tank truck last passed the test required in 27.2.1 of this regulation.

27.2.2.2 Shows the identification number of the truck tank.

27.2.2.3 Expires not more than one year after the date of the Method 27 test.

27.2.3 Is maintained with hatches closed at all times except during measurement of product level or maintenance. Measurement of product level or maintenance shall not be performed during product loading or unloading.

27.2.4 Is connected to vapor recovery equipment during loading and unloading.

27.3 Monitoring gasoline tank trucks for vapor tightness

27.3.1 The Department may, at any time, monitor a gasoline tank truck by the method referenced in 27.3.2 of this regulation to confirm continuing compliance with 27.0 of this regulation.

27.3.2 Monitoring to confirm the continuing existence of vapor-tight conditions shall be performed according to the procedures described in **Appendix B** of the OAQPS Guideline Series document, "Control of Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems," EPA-450/2-78-051.

27.4 Test methods and procedures. The procedures in Method 27, 40 CFR, Part 60, **Appendix A** (July 1, 1992), shall be used to determine compliance with 27.2.1 of this regulation.

27.5 Recordkeeping and reporting requirements

27.5.1 The owner or operator of a gasoline tank truck subject to 27.0 of this regulation shall maintain records of all certification, testing, and repairs. The records shall identify the gasoline tank truck, the date of the tests or repair, and, if applicable, the type of repair and the date of retest. The records shall be maintained in a legible, readily available condition for at least five years after the date the testing or repair is completed. These records shall be made available to the Department immediately upon written or verbal request.

27.5.2 The records required by 27.5.1 of this regulation shall, at a minimum, contain:

27.5.2.1 The gasoline tank truck vessel tank identification number.

27.5.2.2 The initial test pressure and the time of the reading.

27.5.2.3 The final test pressure and the time of the reading.

27.5.2.4 The initial test vacuum and the time of the reading.

27.5.2.5 The final test vacuum and the time of the reading.