

REGULATION 6.21 Standard of Performance for Existing Gasoline Loading Facilities at Bulk Terminals

**Air Pollution Control District of Jefferson County
Jefferson County, Kentucky**

Relates To: KRS Chapter 77 Air Pollution Control

Pursuant To: KRS Chapter 77 Air Pollution Control

Necessity And Function: KRS 77.180 provides that the Air Pollution Control Board may make and enforce all needful orders, rules, and regulations necessary or proper to accomplish the purposes of KRS Chapter 77. This regulation provides for the control of emissions from existing loading facilities at bulk terminals.

SECTION 1 Applicability

This regulation applies to each affected facility which was in being or had a construction permit issued by the District before June 13, 1979.

SECTION 2 Definitions

Terms used in this regulation not defined herein shall have the meaning given them in Regulation 1.02.

- 2.1 "Affected facility" means the facilities at a bulk gasoline terminal for loading gasoline into tank trucks, trailers, railroad tank cars, or other mobile, non-marine vessels.
- 2.2 "Bulk gasoline terminal" means a facility for the storage and dispensing of gasoline where incoming gasoline loads are received by pipeline, marine tanks, or barge (solely or in combination with tank trucks, trailers, railroad tank cars, or other mobile, non-marine vessels) and where outgoing gasoline loads are transferred by tank trucks, trailers, railroad tank cars, or other mobile non-marine vessels.
- 2.3 "Gasoline" means any petroleum distillate used as a fuel for internal combustion engines and having a Reid vapor pressure of four pounds per square inch or greater.

SECTION 3 Standard for Volatile Organic Compounds

- 3.1 No owner or operator of any loading facility shall load gasoline unless such facility is equipped with a vapor control system which is in good working order and in operation.
- 3.2 Loading shall be accomplished in such a manner that all displaced vapor and air will be vented only to the vapor collection system. Measures shall be taken to prevent liquid drainage from the loading device when it is not in use or to accomplish complete drainage before the loading device is disconnected.
- 3.3 No owner or operator shall permit the volatile organic compound emissions from the vapor control device to exceed 80 milligrams per liter of gasoline loaded.
- 3.4 No owner or operator shall open tank hatches or allow hatches to be opened at any time during loading operations if bottom-fill is practiced. If top-submerged fill is practiced, the hatch is to be opened the minimum time necessary to install and remove the submerged fill pipe and associated vapor collection equipment.
- 3.5 No owner or operator shall permit gasoline to be spilled, discarded in sewers, stored in open containers, or handled in any other manner that would result in evaporation.

- 3.6 No owner or operator of a bulk gasoline terminal subject to this regulation shall allow loading on or after April 1, 1983 unless the following provisions are met:
 - 3.6.1 The vapor control system and associated equipment are designed and operated to prevent gauge pressure in the tank truck or trailer from exceeding 450 mm water (18 inches water) and prevent vacuum from exceeding 150 mm water (six inches water);
 - 3.6.2 A pressure tap or any equivalent system as approved by the District is installed on the vapor collection system so that a liquid manometer, supplied by the owner or operator, can be connected to the tap in order to determine compliance with section 3.6.1. The pressure tap shall be installed by the owner or operator as close as possible to the connection with the tank truck or trailer, and shall consist of a 1/4 inch tubing connector which is compatible with the use of 3/16 inch inside diameter plastic tubing;
 - 3.6.3 During loading operations there is no reading greater than or equal to 100% of the lower explosive limit (LEL, measured as propane) at a distance of 2.5 centimeters (one inch) from the potential leak source associated with the vapor collection system of a bulk gasoline terminal as detected by a combustible gas detector using the test procedure in section 5.4; and
 - 3.6.4 The tank truck or trailer has a valid Kentucky pressure-vacuum test sticker as required by Regulation 6.37 attached and visibly displayed.

SECTION 4 Monitoring and Reporting Requirements

The owner or operator shall conduct such monitoring of operations and submit records as specified by the District.

SECTION 5 Compliance

- 5.1 The design of the vapor control system is subject to the approval of the District.
- 5.2 Methods specified by the District shall be used to determine compliance with section 3, except as required in sections 5.3 and 5.4.
- 5.3 The test procedure, as defined in "Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals," EPA-450/2-77-026, (OAQPS No. 1.2-082) Appendix A shall be used to determine compliance with section 3.6. Each bulk gasoline terminal subject to this regulation shall use leak tight tank trucks for the compliance test. For purposes of testing using Appendix A, a leak-tight tank truck is one that during loading has no reading greater than or equal to 100% of the lower explosive limit (LEL, measured as propane), at a distance of 2.5 centimeters (one inch) from the potential leak source associated with the gasoline tank truck or trailer and its vapor collection system, as detected by a combustible gas detector using the test procedure in section 5.4.
- 5.4 The test procedure, as defined in "Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems (OAQPS 1.2-119) Appendix B, or an equivalent procedure approved by the District, shall be used to determine compliance with section 3.6.3 during inspections conducted pursuant to KRS 77.165 or KRS 224.10-100 (10) and with the requirements of section 5.3.

SECTION 6 Compliance Timetable

- 6.1 The owner or operator of an affected facility shall be required to complete the following:

- 6.1.1 Submit a final control plan for achieving compliance with this regulation by September 1, 1979;
- 6.1.2 Award the control system contract by January 1, 1980;
- 6.1.3 Initiate on-site construction or installation of emission control equipment by July 1, 1980;
- 6.1.4 Complete on-site construction or installation of emission control equipment by March 1, 1981; and
- 6.1.5 Achieve final compliance by May 1, 1981.
- 6.2 The owner or operator of an affected facility shall achieve final compliance with section 3.6 by April 1, 1983.

Adopted v1/6-13-79; effective 6-13-79; amended v2/11-16-83.