



## DRAFT

### 10 CSR 10-6.\*\*\* Control of Petroleum Liquid Storage, Loading and Transfer

- (1) Applicability.
- (A) This rule is divided into industry specific sections. As ozone abatement measures are prescribed to various areas (areas outside the existing St. Louis and Kansas City vapor control areas) The subsections of 10 CSR 10-\_\_\_ shall make reference to these universal vapor recovery projects by industry.
  - (B) Compliance with this rule does not relieve the owner or operator of the responsibility
  - (C) Exemptions to this rule include:
    - 1. Petroleum storage tanks that meet the following requirements shall be exempt from ...
    - 2. Gasoline loading, (gasoline terminals, gasoline bulk plants)
  - (D) Shall not apply to loading installations whose average monthly throughput of gasoline is less than or equal to 120,000 gallons when averaged over the most recent calendar year,
    - A. to maintain the exemption above these installations shall submit a report by February 1 of each year.....
  - (E) Explanation of rules applicable to other facilities an owner might own when receiving a low throughput exemption for a single bulk plant.
  - (F) Anyone found to be involved or responsible for violations of these rules may be issued a Notice of Violation and be subject to monetary penalties within a settlement agreement.
  - (G) All gasoline dispensing facilities (GDF), bulk facilities, terminal facilities, and initial fueling facilities, unless specifically exempted, must obtain Construction Permits, conduct testing and obtain Operating Permits.

(2) Definitions

(All existing definitions (some editing required on (2)(H)) as exist. Add definition of EVR MOPETP approved stage I and stage II systems, and other vapor recovery systems.)

(3) General Provisions

**(A) Bulk Plants and Terminals:**

- 1. Bulk Petroleum Storage Tanks
  - A. No owner or operator of petroleum storage tanks shall cause or permit the storage in any stationary storage tank of more than 40,000 gallons capacity of any petroleum liquid (or any internal combustion engine fuel) having a true vapor pressure of 1.5 lbs per square inch absolute (psia) or greater at 90 degrees F
- 2. Gasoline Loading – Loading facilities and Delivery vessels and personnel.
  - A. No owner or operator or personnel of either shall cause or permit the loading of gasoline into any vessel
  - B. Loading shall be accomplished in a manner that the displaced vapors and air will be vented only to the vapor recovery system.
- 3. Reporting and record keeping

- A.
- B.

**(B) Gasoline /Motor Fuel Delivery Companies:**

- 1. No owner or operator of a gasoline storage tank or delivery vessel shall cause or permit the transfer of gasoline/or gasoline blends, into a storage tank.....
- 2. All storage tank caps and fittings are to be vapor tight when gasoline transfer is not taking place.,
- 3. No owner or operator of a gasoline delivery vessel shall cause or permit the transfer of gasoline/gasoline blends from a delivery vessel into a storage tank with a capacity grater than one thousand (1000) gallons, and less than 40,000 gallons unless .....
- 4. The owner or operator employs one vapor line per prodct line during the transfer.
- 5. And the vapor hose(s) employed is no less than 3 inched inside diameter and
- 6. The product hose employed is no more than four (4) inches
- 7. No owner or operator of a gasoline delivery vessel shall operate or use a gasoline delivery vessel which is loaded or unloaded at any vapor controlled gasoline terminal or bulk plant...
  - A. The delivery vessel is tested annually to demonstrate compliance with the test method specified in 40 CRR part 63 (Method 27)
  - B.
  - C.
  - D.

**(C) Stage I Vapor Recovery at Gasoline Distribution Facilities (GDF) Fueling of Motor Vehicles**

- 1. Except as provided in subsections (3) (A) – (C) of this rule on owner or operator shall install, permit the use of or maintain any stationary gasoline tank with a capacity of more than 1000 gallons or operate an installation with a monthly throughput of greater than ten thousand (10,000) gallons or smaller class unless the storage tank(s) is equipped with a vapor recovery system.
- 2. The system shall be approved by the staff director based on the MOPETP and shall be capable of
  - A. Collecting vapor
  - B. Preventing their emissions to the atmosphere
  - C. Maintaining the 98% efficiency of total capture and emission reduction
  - D. After January 1, 1999, no construction permit for modification or replacement of any equipment or component including a like for like replacement shall be approved unless the equipment or component is MOPETP approved.....
  - E.
  - F.

**(D) Stage II Vapor Recovery at Gasoline Distribution Facilities (GDF)**

Facilities subject to full Stage I and Stage II vapor recovery - If you are required to have Stage II VR then you are required to have Stage I as well.

**(E) Fueling of Motor Vehicles**

- 1. Except as provided in subsections (3)(A)-(C) of this rule, no owner or operator shall install, permit the use of or maintain any stationary gasoline tank with a capacity of more than 1000 gallons operate and installation with a monthly throughput of greater than 10,000 gallons of

gasoline through tanks in the one thousand gallon or smaller class unless the storage tank(s) is equipped with a vapor recovery system. ....

2. After January 1, 1999, no installation subject to this section shall employ remote vapor check valves.

3. After January 1, 1999, no construction permit for the modification or replacement of any equipment or component, including a like for like replacement, shall be approved unless the equipment or component is MO/PETP approved. ....

4. For the purpose of subsection (3)(E) of this rule, no vapor recovery systems or devices shall be installed used or maintained until they are permitted by the director in accordance with the subsections (3) (H) and (I) of this rule.

5. All tank gauging and sampling sites or ports, valves, breakaways, joints and disconnects on the VR systems shall be gas-tight to prevent VOC emissions except during gauging or sampling.

6.

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10.

11. The vapor recovery system shall be approved by the staff director based on the MOPETP and shall be capable of

## **Gasoline Vapor Control, Recovery, At Initial Fueling Facilities (Auto Assembly Plants) Initial Fueling of Motor Vehicles.**

### 1. Initial fueling systems and ancillary refueling systems

A. Subsection (3) (F) of this rule shall only apply to the fueling systems used for the initial fueling of motor vehicles as defined in subsection (2)(E) of this rule and the ancillary refueling systems used to fuel in-use motor vehicles defined in subsection (2)(A) of this rule. All other MO/PETP provisions apply.

B. The initial fueling systems and ancillary refueling systems storage tank systems are subject to the gasoline storage tank transfer requirements in subsection (3) (C) . [The storage tank systems and associated plumbing must meet the 98% overall control efficiency.](#)

### 2. Owner or Operator Requirements.

A. No owner or operator shall install, permit the use of, or maintain any stationary gasoline tank for the purpose of initial fueling of new motor vehicle gasoline tanks unless the new motor vehicle is equipped with a U.S. Environmental Protection Agency (EPA) certified Onboard Refueling Vapor Recovery (ORVR) system, or the gasoline dispensing system is equipped with a vapor recovery system, (e.g. Stage II probably with a processor) , capable of a minimum of ninety-five percent (95%) control efficiency.

B. No owner or operator shall install, permit the use of, or maintain any stationary gasoline tank for the purposes of ancillary fueling of motor vehicles unless the motorvehicle is

equipped with an EPA certified ORVR system or the gasoline dispensing system is equipped with a .....

C. Demonstration of emission capture and control efficiency of the gasoline dispensing vapor recovery system shall be required

(I)

(II)

(III)

D. Initial fueling systems and ancillary refueling systems are subject to the gasoline transfer tank requirements in