

# PRELIMINARY DRAFT

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## Title 26 DEPARTMENT OF THE ENVIRONMENT Subtitle 11 AIR QUALITY

### Chapter 24 [Stage II] Vapor Recovery at Gasoline Dispensing Facilities

Authority: Environment Article, §§1-101, 1-404, 2-101—2-103, 2-301—2-303, 10-102, and 10-103, Annotated Code of Maryland

#### **.01 (text unchanged)**

A. In this chapter, the following terms have the meanings indicated.

B. Terms Defined.

(1) — (2-1) (text unchanged)

(2-2) “*Direct current fast charge electric vehicle charging station*” means a Level 3 DC fast charger that delivers a minimum of 50kW and meets both SAE Combo Coupler (J1772) and CHAdeMO Fast Charger standards to support electric vehicles in North America.

(2-3) “*Dripless nozzles*” means a nozzle that limits spillage to 0.24 lbs/1000 gallons and is capable of reducing post-fueling drips from nozzles to no more than one drop per fueling event as per California Environmental Protection Agency Air Resources Board Vapor Recovery Test Procedure TP-201.2D Post-Fueling Drips from Nozzle Spouts.

(3) — (8) (text unchanged)

(8-1) “*Low permeation hose*” means all hoses that carry liquid fuel and permeate at a rate of no more than ten grams per square meter per day (10 gr/m<sup>2</sup>/day) as determined by UL 330 (Seventh Edition) – Underwriters Laboratories’ Standard for Hose and Hose Assemblies for Dispensing Flammable Liquids.

(9) — (14) (text unchanged)

(14-1) “*Stage I vapor balance system*” means coaxial or dual piping that creates a closed system between a tank truck and a stationary storage tank and contains the vapors during the transfer of gasoline.

(15) — (20) (text unchanged)

#### **.01-1 Incorporation by Reference.**

A. In this chapter, the following CARB approved test methods are incorporated by reference.

B. Test Methods Incorporated.

(1) – (5) (text unchanged)

(6) *Leak Rate and Cracking Pressure of Pressure/Vacuum Valves TP-201.1E.*

(7) *Determination of Vapor Piping Connections to Underground Gasoline Storage Tanks (Tie-Tank Test) TP-201.3C.*

(8) “*Recommended Practices for Installation and Testing of Vapor Recovery Systems at Vehicle Refueling Sites*” of the Petroleum Equipment Institute, Section 14, 2009.

(9) *UL 330 (Seventh Edition) – Underwriters Laboratories’ Standard for Hose and Hose Assemblies for Dispensing Flammable Liquids.*

(10) *California Environmental Protection Agency Air Resources Board Vapor Recovery Test Procedure TP-201.2D Post-Fueling Drips from Nozzle Spouts.*

#### **.02 Applicability, Exemptions, and Effective Date.**

A.– F. (text unchanged)

#### **.03 General Requirements.**

A. New Gasoline Dispensing Facilities. [After May 15, 1993, a]An owner or operator of a new gasoline dispensing facility may not operate the gasoline dispensing facility unless it is equipped and operated with an approved system.

A-1. *Gasoline Dispensing Facilities constructed after January 1, 2014. Notwithstanding § .03A, an owner or operator of a gasoline dispensing facility constructed after January 1, 2014:*

(1) *With an estimated monthly gasoline throughput of 300,000 gallons or less is not required to install and operate a Stage II vapor recovery system; and*

(2) With an estimated monthly gasoline throughput of greater than 300,000 gallons may either install and operate a Stage II vapor recovery system or meet the requirements of §.03-2.

B.-I. (text unchanged)

J. Stage I Vapor Recovery. An owner or operator of a gasoline tank truck or an owner or operator of a gasoline dispensing facility subject to this regulation may not cause or permit gasoline to be loaded into a stationary tank unless the loading system is equipped with a Stage I vapor balance system that is properly installed, maintained, and used.

K. Low Permeation Hose. An owner or operator of a gasoline dispensing facility subject to this regulation that does not install and operate or decommissions a Stage II vapor recovery system must install and operate low permeation hoses.

L. Dripless Nozzles. An owner or operator of a gasoline dispensing facility subject to this regulation that does not install and operate or decommissions a Stage II vapor recovery system must install and operate dripless nozzles at every pump.

**.03-1 Decommissioning of the Stage II Vapor Recovery System.**

A. Notwithstanding §.03A, an owner or operator of a gasoline dispensing facility that operates an approved Stage II vapor recovery system:

(1) With a monthly gasoline throughput of 300,000 gallons or less may decommission Stage II vapor recovery systems in accordance with §.03-1B after January 1, 2017;

(2) With a monthly gasoline throughput of 300,000 gallons or less may decommission Stage II vapor recovery systems in accordance with §.03-1B after January 1, 2014 if an underground storage tank is replaced or the gasoline dispensing facility is modified as approved by the Department ;

(3) With a monthly gasoline throughput of 300,000 gallons or less may decommission Stage II vapor recovery systems in accordance with §.03-1B after January 1, 2014 if the requirements of §.03-2 are met;

(4) With a monthly gasoline throughput of greater than 300,000 gallons may decommission Stage II vapor recovery systems in accordance with §.03-1B after January 1, 2017 if the requirements of §.03-2 are met; and

(5) With a monthly gasoline throughput of greater than 300,000 gallons may decommission Stage II vapor recovery systems in accordance with §.03-1B after January 1, 2014 if an underground storage tank is replaced or the gasoline dispensing facility is modified as approved by the Department and if the requirements of §.03-2 are met.

B. An owner or operator of a gasoline dispensing facility that decommissions a Stage II vapor recovery system shall perform the decommissioning of the Stage II vapor recovery system in accordance with the “Recommended Practices for Installation and Testing of Vapor Recovery Systems at Vehicle Refueling Sites” of the Petroleum Equipment Institute, Section 14, 2009.

**.03-2 Electric Vehicle Charging Station Option.**

**UNDER DEVELOPMENT**

**.04 Testing Requirements.**

A. Testing Requirements for Stage II Stations. Except as provided in §§E, [and] F and G of this regulation, an owner or operator of a gasoline dispensing facility subject to this chapter which operates State II Vapor Recovery systems shall perform the following CARB-approved tests.

(1) – (5) (text unchanged)

(6) A leak rate and cracking pressure of pressure/vacuum vent valves TP-201.1E referenced in Regulation .01-1B(6).

(7) Determination of Vapor Piping Connections to Underground Gasoline Storage Tanks (Tie-Tank Test) TP-201.3C as referenced in Regulation .01-1B(7).

A-1. Testing Requirements for Decommissioned Stations. Except as provided in §§E, F and G of this regulation, an owner or operator of a gasoline dispensing facility subject to this chapter who does not operate Stage II Vapor Recovery systems shall perform the testing requirements of §.04A(1), (6) and (7).

B. (text unchanged)

C. Stage II Vapor Recovery System.

(2) Test Schedule.

Type of Stage II Vapor Recovery System	Initial Test	Frequency of Retest
(a) Vapor Balance System	Dynamic Back Pressure	12 months
	Leak Test	12 months
	Leak Rate and Cracking Pressure	12 months
	Tie-Tank Test	12 months
	Liquid Blockage Test	5 years

(b) Vapor Assist System—Type 1	Air to Liquid Ratio Test	12 months
	Leak Test	12 months
	<i>Leak Rate and Cracking Pressure</i>	<i>12 months</i>
	<i>Tie-Tank Test</i>	<i>12 months</i>
	Liquid Blockage Test	5 years
(c) Vapor Assist System—Type 2 Model 400	Nozzle Regulation Test	12 months
	Vapor Return Leak Tightness Test	12 months
	<i>Leak Rate and Cracking Pressure</i>	<i>12 months</i>
	<i>Tie-Tank Test</i>	<i>12 months</i>
(d) Vapor Assist System—Type 2 Model 600	Air to Liquid Ratio Test	12 months
	Vapor Return Line Vacuum Integrity Test	12 months
	<i>Leak Rate and Cracking Pressure</i>	<i>12 months</i>
	<i>Tie-Tank Test</i>	<i>12 months</i>

D.- F. (text unchanged)

**.05 - .06 (text unchanged)**

**.07 Record-Keeping and Reporting Requirements.**

A. – D. (text unchanged)

E. The following reporting requirements apply to any test required under this chapter:

(1) – (2) (text unchanged)

(3) Copies of all test results shall be forwarded to the Department within [45] 30 days of the test; and

(4) (text unchanged)

**.08 - .09 (text unchanged)**