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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 is designed to deliver a minimum of 20kW to each vehicle plugged in and meets either SAE Combo Coupler (J1772) or CHAdeMO Fast Charger standards to support electric vehicles in North America.*

(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/m²/day) as determined by UL 330 (Seventh Edition) – Underwriters Laboratories’ Standard for Hose and Hose Assemblies for Dispensing Flammable Liquids.*

(9) — (13) (text unchanged)

(14) *“Owner” means the person who owns a gasoline dispensing facility and who is responsible for the installation requirements, initial compliance, and periodic testing of an approved system. Owner includes a person who:*

(a) Owns an oil storage facility or UST system, or both, used for storage, use, or dispensing of regulated substances; or

(b) Owned the UST system immediately before the discontinuation of its use.

(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.*

.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 annual gasoline throughput of less than 30,000,000 gallons for the owner’s entire system of gasoline dispensing facilities in Maryland is not required to install and operate a Stage II vapor recovery system; or

(2) With an estimated annual gasoline throughput of 30,000,000 or more gallons for the owner's entire system of gasoline dispensing facilities in Maryland may either install and operate a Stage II vapor recovery system or meet the requirements of §.03-2.

A-2. Annual gasoline throughput is based upon 2012 data.

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.

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

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

(1) With an annual gasoline throughput of less than 30,000,000 gallons may decommission Stage II vapor recovery systems in accordance with §.03-1C after January 1, 2014;

(2) With an annual gasoline throughput of 30,000,000 or more gallons may decommission Stage II vapor recovery systems in accordance with §.03-1C after January 1, 2014 if the requirements of §.03-2 are met.

B. Annual gasoline throughput is based upon 2012 data.

C. 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 and COMAR 26.10.10.

.03-2 Electric Vehicle Charging Station Option.

A. Notwithstanding § .03A, an owner or operator of a large system of gasoline dispensing facilities that decommissions pursuant to § .03-1A (2) of this chapter, or that elects to forego installation and operation of a Stage II vapor recovery system pursuant to .03A-1(2) of this chapter shall:

(1) Install Direct Current fast charge electric vehicle charging stations as specified in the following table:

Number of Maryland Stations Owned in 2012	Required Number of DC Fast Charge Electric Vehicle Charging Stations
8-49	2
50-100	5
Greater than 100	11

(2) Install required Direct Current fast charge electric vehicle charging stations by 2020.

(3) Submit, to the Department, not later than 3 months before decommissioning Stage II Vapor recovery systems or prior to submittal of a permit to install a new station, a plan detailing:

- (a) the number of Direct Current fast charge electric vehicle charging stations planned to be installed;
- (b) the proposed location of the installed Direct Current fast charge electric vehicle charging stations;
- (c) the proposed schedule for installation of the Direct Current fast charge electric vehicle charging stations;
- (d) a description of how changes to the plan will be communicated to the Department;

and

(e) Any additional information requested by the Department.

B. Early Installation Incentive Option.

(1) Owners who install at least 50% of their required number of Direct Current fast charge electric vehicle charging stations as specified in § .03-2A(1) before January 1, 2017 are only required to install the total number of Direct current fast charge electric vehicle charging stations as specified in § .03-2B(2).

(2) Required number of Direct current fast charge electric vehicle charging stations if the requirements of § .03-2B(1) are met:

Number of Maryland Stations Owned in 2012	Required Number of DC Fast Charge Electric Vehicle Charging Stations
8-49	1
50-100	3
Greater than 100	8

.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.

<i>Type of Stage II Vapor Recovery System</i>	<i>Initial Test</i>	<i>Frequency of Retest</i>
(a) Vapor Balance System	Dynamic Back Pressure	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
(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)