

RULE 214 TRANSFER OF GASOLINE INTO VEHICLE FUEL TANKS

Adopted 06-19-79
(Amended 04-21-81, 10-19-93, 04-09-09, 02-21-13)

CONTENTS

100 GENERAL

- 101 APPLICABILITY
- 102 EXEMPTIONS

200 DEFINITIONS

- 201 CARB CERTIFIED
- 202 GASOLINE
- 203 LEAK FREE
- 204 MAJOR DEFECT
- 205 MINOR DEFECT
- 206 MOTOR VEHICLE
- 207 REID VAPOR PRESSURE
- 208 VAPOR TIGHT

300 STANDARDS

- 301 GASOLINE TRANSFER
- 302 POSTING OF OPERATING INSTRUCTIONS
- 303 PROHIBITION OF SALE
- 304 MAINTENANCE AND REPAIR

400 ADMINSTRATIVE REQUIREMENTS

- 401 TEST METHODS

This Page Intentionally Left Blank

100 GENERAL

101 APPLICABILITY: The provisions of this rule shall apply to the transfer of gasoline from any stationary storage tank into any motor vehicle fuel tank.

102 EXEMPTIONS

102.1 Non Retail Gasoline Dispensing Facilities: The provisions of Section 301 shall not be subject to non-retail gasoline dispensing facilities located in that part of Placer County east of Range 8, Mount Diablo Base and Meridian.

102.2 Gasoline Dispensing to Non-Retail Motor Vehicles with Onboard Refueling Vapor Recovery: Transfer of gasoline from any storage tank into a vehicle fuel tank is exempt from Section 301 at any non-retail motor vehicle fueling facility where 95 percent of vehicles refueled are equipped with Onboard Refueling Vapor Recovery provided that the Phase II vapor recovery system, if previously installed, has been properly removed in a manner approved in writing by the Air Pollution Control Officer.

102.2.1 To qualify for this exemption, the gasoline dispenser(s) must be owned and operated by the owner of the vehicle fleet and exclusively dedicated to fueling the fleet.

102.2.2 An operator claiming this exemption shall keep a record of the make, model, model year, and vehicle identification number of all vehicles refueled at the gasoline dispensing operation. These records shall be maintained on the premises for at least five calendar years with a submittal of quarterly records to the Air District in order to demonstrate annual compliance with 95% Onboard Refueling Vapor Recovery. In lieu of refueling records, the Air Pollution Control Officer may approve an alternative method for verifying or ensuring that only vehicles equipped with Onboard Refueling Vapor Recovery are refueled at such facility.

102.3 Flexible Fuel Vehicle Fuel Tank: Transfer of E85 from any storage tank into a Flexible Fuel Vehicle fuel tank at any retail service station or non-retail motor vehicle fueling facility is exempt from Section 301. E85 is defined as a petroleum distillate/alcohol blend having a Reid vapor pressure of 4.0 pounds per square inch or greater and meeting the requirements of Title 13 California Code of Regulations, Section 2250 et seq., and as further defined in Title 12 California Code of Regulations Section 2250(b) and containing a minimum 15 percent of petroleum distillate and a maximum 85 percent of ethyl alcohol.

102.4 Maintenance and Repair: Only during the active repair of equipment, can the "Out of Order" tag be removed.

200 DEFINITIONS

201 CARB CERTIFIED: A vapor recovery system, equipment, or any component thereof, for which the CARB has evaluated its performance and issued a valid Executive Order pursuant to California Health and Safety Code Section 41954. Each component of a system that is a separate CARB certified item cannot be replaced with a non-certified item or other items that are not certified for use with the particular system. Except for qualified repairs, a CARB certified component shall be as supplied by the qualified manufacturer. A rebuilt component shall not be deemed as CARB certified unless the person who rebuilds the component is authorized by CARB to rebuild the designated CARB certified component.

- 202 **GASOLINE:** Any petroleum distillate having a Reid vapor pressure of four pounds or greater.
- 203 **LEAK FREE:** A liquid leak of no greater than three drops per minute.
- 204 **MAJOR DEFECT:** Any defect that meets the criteria of California Code of Regulations, Title 17, Division III, Chapter 1, Subchapter 8, Article 1, Section 94006 and is listed on CARB's Vapor Recovery Equipment Defects (VRED) list or is specified within the Executive Order certifying the vapor recovery system.
- 205 **MINOR DEFECT:** A defect in any gasoline dispensing equipment, which renders the equipment out of good working order but which does not constitute a major defect.
- 206 **MOTOR VEHICLE:** Any vehicle registered with the California Department of Motor Vehicles.
- 207 **REID VAPOR PRESSURE:** The absolute vapor pressure of volatile crude oil and volatile non-viscous petroleum liquids, except liquefied petroleum gases, and determined by ASTM-323-89.
- 208 **VAPOR TIGHT:** The concentration of total hydrocarbons, measured 1 cm from any source, not to exceed 10,000 ppm (expressed as methane) above background, as determined by EPA Reference Method 21.

300 STANDARDS

- 301 **GASOLINE TRANSFER:** A person shall not transfer or permit the transfer of gasoline from a stationary storage container subject to the provisions of RULE 213, GASOLINE TRANSFER INTO STATIONARY STORAGE CONTAINERS into any motor vehicle fuel tank of greater than 5 gallons capacity unless such transfer is made through a fill nozzle which directs the gasoline vapors displaced by the transfer through the fill nozzle to a system that is CARB certified and will prevent at least 95 percent by weight of such gasoline vapors from entering the atmosphere.
 - 301.1 The vapor recovery system is operating in accordance with the applicable CARB Executive Orders, the manufacturer's specifications, and is maintained to be leak free, vapor tight, and in good working order; and
 - 301.2 The equipment is operated and maintained without any major defects.
- 302 **POSTING OF OPERATING INSTRUCTIONS:** Each gasoline dispensing facility utilizing a Phase II system shall conspicuously post operating instructions for the system in the gasoline dispensing area. The instructions shall clearly describe how to fuel vehicles correctly with vapor recovery nozzles utilized at the station and shall include a warning that repeated attempts to continue dispensing, after the system having indicated that the vehicle fuel tank is full (topping off), is prohibited, and may result in spillage or recirculation of gasoline pursuant to California Health and Safety Code Section 41960.4.
- 303 **PROHIBITION OF SALE:** A person shall not supply, offer for sale, sell, install or allow the installation of any new or rebuilt vapor recovery system or any of its components, unless the system and component are CARB certified. Each vapor recovery system and its components shall be clearly and permanently marked with the qualified manufacturer's name and model number as certified by CARB. In addition, any qualified manufacturer who rebuilds a component shall also clearly and permanently mark the corresponding information on the component.

304 MAINTENANCE AND REPAIR

- 304.1 Major Defect: No person shall operate any CARB certified vapor recovery system or any portion thereof, or CARB certified vapor recovery equipment that has a major defect.
- 304.1.1 Upon the identification of any major defect, the owner or operator shall tag "Out-of-Order" all dispensing equipment for which vapor recovery has been impaired.
- 304.1.2 Except during active repair activity, the "Out of Order" tag on the tagged equipment shall be rendered inoperable and the tag(s) shall not be removed until the equipment has been repaired, replaced, or adjusted as necessary.
- 304.2 Minor Defect: The owner/operator shall repair or replace any vapor recovery component or equipment having a minor defect within seven days, pursuant to Section 41960.2(e) of the California Health and Safety Code.

400 ADMINSTRATIVE REQUIREMENTS

- 401 TEST METHODS:** Test methods for compliance testing for this rule shall be conducted in accordance with the following test methods.
- 401.1 Determination of 2 Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities (static pressure (leak decay)) test: CARB Test Procedure TP-201.3, TP-201.3B, or TP-206.3, as applicable.
- 401.2 Dynamic back pressure test: CARB Test Procedure TP-201.4.
- 401.3 Determination of Liquid Removal of Phase II Vapor Recovery Systems of Dispensing Facilities: CARB Test Procedure TP-201.6.
- 401.4 Gasoline Liquid Retention in Nozzles and Hoses: CARB Test Procedure TP-201.2E.
- 401.5 Determination of Static Pressure Performance of the (Franklin Fueling Systems) Healy Clean Air Separator: CARB Test Procedure in Executive Orders VR-201 and VR-202 Series and VR-203 and VR-204 Series and VR-209 Series.
- 401.6 Vapor to Liquid Volume Ratio CARB Test Procedure in Executive Orders VR-201 and VR-202 Series.
- 401.7 Nozzle Bag Test Procedure: CARB Test Procedure in Executive Orders VR-201 and VR-202 Series and VR-203 and VR-204 Series.
- 401.8 Veeder-Root ISD Operability Test: CARB Test Procedure in Executive Orders VR-201 and VR-202 Series.
- 401.9 FFS INCON ISD Operability Test: CARB Test Procedure in Executive Orders VR-201 and VR-202 Series.
- 401.10 Liquid Condensate Trap Compliance Procedure: CARB Test Procedure in Executive Orders VR-201 and VR-202 Series and VR-203 and VR-204 Series.

- 401.11 Healy VP1000 Vacuum Pump Test: Test Procedure in the Installation and Operation Manual for CARB Executive Orders VR-201 and VR-202 Series.
- 401.12 Liquid Removal Test Procedure: Test Procedure in the Executive Orders VR-203 and VR-204 Series.
- 401.13 VST ECS; Hydrocarbon Sensor Verification Test Procedure: Test Procedure in the Executive Orders VR-203 and VR-204 Series.
- 401.14 VST ECS; Determination of Processor Activation Pressure: Test Procedure in the Executive Orders VR-203 and VR-204 Series.
- 401.15 Veeder-Root; Vapor Pressure Sensor Verification Test Procedure: Test Procedure in the Executive Orders VR-203 and VR-204 Series.
- 401.16 Veeder-Root Vapor Polisher; Operability Test Procedure: Test Procedure in the Executive Orders VR-203 and VR-204 Series.
- 401.17 Veeder-Root Vapor Polisher; Hydrocarbon Emissions Verification Test Procedure: Test Procedure in the Executive Orders VR-203 and VR-204 Series.
- 401.18 Hirt VCS 100 Processor with Indicator Panel Operability Test Procedure: Test Procedure in the Executive Orders VR-203 and VR-204 Series, VR 205 Series, and VR-207 and VR-208 Series.
- 401.19 Veeder-Root; ISD Vapor Flow Meter Operability Test Procedure: Test Procedure in the Executive Orders VR-203 and VR-204 Series.
- 401.20 INCON ISD System Vapor Flow Meter Operability Test Procedure Test Procedure in the Executive Orders VR-207 and VR-208 Series.
- 401.21 INCON ISD System Vapor Pressure Sensor Verification Test Procedure Test Procedure in the Executive Orders VR-207 and VR-208 Series.
- 401.22 Only calibrated equipment meeting the calibration range and intervals specified by CARB and the equipment manufacturer shall be used to conduct any performance or reverification test.
- 401.23 Those vapor recovery systems whose CARB Executive orders specify different tests to be performed instead of, or in addition to, the referenced test methods, or which, by their design, preclude the use of the referenced test methods, shall be tested in accordance with the test procedures specified in the applicable CARB Executive Orders or their equivalents as approved by the APCO.
- 401.24 Multiple Test Methods: When more than one test method or set of test methods is specified for any testing, a violation of any requirement of this rule established by any one of the specified test methods or set of test methods shall constitute a violation of this rule.