

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER G-70-204-A

Gilbarco VaporVac/OPW Vaporsaver
ORVR-Compatible Phase II Vapor Recovery System

WHEREAS, the California Air Resources Board (ARB) has established, pursuant to California Health and Safety Code sections 39600, 39601 and 41954, certification procedures for systems designed for the control of gasoline vapor emissions during the filling of underground gasoline storage tanks, in its CP-201, ***Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities*** (Certification Procedure) as amended February 9, 2005, incorporated by reference in Title 17, California Code of Regulations, Section 94011;

WHEREAS, Gilbarco Incorporated (Gilbarco) requested and was granted certification of the VaporVac Phase II vapor recovery system (VaporVac System) pursuant to the Certification Procedure by Executive Order G-70-150, first issued on March 26, 1993, and by modifications G-70-150-AA through G-70-150-AE issued on August 31, 1993, February 7, 1994, February 26, 1996, August 1, 1996, and July 12, 2000;

WHEREAS, OPW Fueling Components, Inc. (OPW) requested and was granted certification of the VaporVac System with the OPW Vaporsaver 1 tank pressure management system (VaporVac/Vaporsaver System) pursuant to the Certification Procedure by Executive Order G-70-204, issued on November 17, 2004;

WHEREAS, VaporVac/Vaporsaver System has demonstrated compatibility when fueling vehicles equipped with onboard refueling vapor recovery (ORVR) systems:

WHEREAS, OPW requested a modification to the certification to include a processor downtime provision for the Vaporsaver 1 tank pressure management system;

WHEREAS, the requested modification to the certification of the VaporVac/Vaporsaver system has been tested and evaluated pursuant to the Certification Procedure;

WHEREAS, the Certification Procedure provides that the ARB Executive Officer shall issue an Executive Order if he or she determines that the vapor recovery system, including modifications, conforms to all of the applicable requirements set forth in the Certification Procedure;

WHEREAS, G-01-032 delegates to the Chief of the Monitoring and Laboratory Division the authority to certify or approve modifications to certified Phase I and Phase II vapor recovery systems for gasoline dispensing facilities (GDF); and

WHEREAS, I, William V. Loscutoff, Chief of the Monitoring and Laboratory Division, find that the VaporVac/Vaporsaver System conforms with all the requirements set forth in the Certification Procedure, and results in a vapor recovery system which is at least 95 percent effective for attended and/or self-service use at gasoline service stations when used in conjunction with a ARB-certified Phase I vapor recovery system.

NOW, THEREFORE, IT IS HEREBY ORDERED that the VaporVac/Vaporsaver System is certified to be at least 95 percent effective in attended and/or self-service mode when used with an ARB-certified Phase I vapor recovery system. Exhibit 1 contains a list of the equipment certified for use with the VaporVac/Vaporsaver System. Exhibit 2 contains installation and performance specifications for the equipment listed in Exhibit 1. Exhibit 3 is a list of required items in conducting TP-201.3 (Determination of 2 inch WC Exhibit Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities). Exhibits 4 and 5 are test procedures for determining tank pressure and air to liquid ratio.

IT IS FURTHER ORDERED that VaporVac/Vaporsaver installations shall be limited to a maximum of 16 fueling points. The term fueling point refers to one side of a dispenser, regardless of the number of nozzles per side.

IT IS FURTHER ORDERED that compliance with the applicable certification requirements, rules and regulations of the Division of Measurement Standards of the Department of Food and Agriculture, the Office of the State Fire Marshal of the Department of Forestry and Fire Protection, the Division of Occupational Safety and Health of the Department of Industrial Relations and the Division of Water Quality of the State Water Resources Control Board is made a condition of this certification.

IT IS FURTHER ORDERED that the following requirements are made a condition of certification. The owner or operator of the VaporVac/Vaporsaver System shall conduct, and pass, the following tests no later than 60 days after startup and at least once in each twelve month period, using the following test procedures: TP-201.3, ***Determination of 2 Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities*** (March 17, 1999), Exhibit 3, ***Required Items in Conducting TP-201.3, (Determination of 2 inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities)***, and Exhibit 5, ***Determination (by Volume Meter) of Air to Liquid Volume Ratio of Vapor Recovery Systems of Dispensing Facilities***. Shorter time periods may be specified in accordance with local district requirements. Notification of testing, and submittal of test results, shall be done in accordance with local district requirements and pursuant to the policies established by that district. Alternative test procedures may be used if determined by the Executive Officer, in writing, to yield comparable results.

IT IS FURTHER ORDERED that the following requirement is made a condition of certification. The owner or operator of the VaporVac/Vaporsaver System shall conduct, and pass, the following test no later than 60 days after startup, using the following test procedure: TP-201.4, ***Dynamic Back Pressure*** (July 3, 2002). Local districts have the

authority to allow conducting of Exhibit 5, **Determination (by Volume Meter) of Air to Liquid Volume Ratio of Vapor Recovery Systems of Dispensing Facilities**, in lieu of TP-201.4, **Dynamic Back Pressure** (July 3, 2002) provided that at least 2 gallons of product are introduced into the system through each dispenser riser prior to conducting the test. Notification of testing, and submittal of test results, shall be done in accordance with local district requirements and pursuant to the policies established by that district.

IT IS FURTHER ORDERED that each vapor pump and the electronic circuitry with which it is to operate shall be matched and performance checked at the factory, including verification that the vapor recovery system performance is within the A/L range specified in the Air to Liquid Ratio section of Exhibit 2 of this Order. Vapor pumps and electronic components sold separately as replacement parts shall be tested upon field installation to verify that the combination results in vapor recovery system performance within the A/L range specified in the Air to Liquid Ratio section of Exhibit 2 of this Order.

IT IS FURTHER ORDERED that all nozzles approved for use with the VaporVac/Vaporsaver System shall be performance checked at the factory, including checks of the integrity of the vapor path, as specified in Exhibit 2 of this Order.

IT IS FURTHER ORDERED that Gilbarco and OPW shall provide a warranty for the components certified as part of the system and components to the initial purchaser. The warranty shall be passed on to each subsequent purchaser within the warranty period. The manufacturer of components listed in Exhibit 1 not manufactured by Gilbarco or OPW shall provide a warranty to each of their components certified herein. The warranty shall include the ongoing compliance with all applicable performance standards and specifications and shall comply with all warranty requirements in Section 9.2 of the Certification Procedure. Gilbarco, OPW or other manufacturers may specify that the warranty is contingent upon the use of trained installers.

IT IS FURTHER ORDERED that the certified Vaporsaver system shall, at a minimum, be installed, operated and maintained in accordance with the ARB approved Installation, Operation and Maintenance Manual for the OPW Vaporsaver System. A copy of this Executive Order and manual should be maintained at each GDF where the OPW Vaporsaver System is installed with a Gilbarco VaporVac System.

IT IS FURTHER ORDERED that any alteration in the equipment, parts, design, installation or operation of the system certified hereby is prohibited and deemed inconsistent with this certification unless the alteration has been submitted in writing and approved in writing by the Executive Officer or Executive order delegate.


IT IS FURTHER ORDERED that equipment defects set forth in the most recently approved **Vapor Recovery Equipment Defects List** (Section 94006, Title 17, California Code of Regulations) for the Marconi (Gilbarco) VaporVac (Executive Order G-70-150 series) are hereby incorporated for this certification.

IT IS FURTHER ORDERED that equipment listed in Exhibit 1, unless exempted, shall be clearly identified by a permanent identification showing the manufacturer's name and model number.

IT IS FURTHER ORDERED that the certification of the VaporVac/Vaporsaver System is valid through March 31, 2009. After this date the vapor recovery systems installed at GDF shall comply with the applicable requirements listed in Table 2-1 of the Certification Procedure.

IT IS FURTHER ORDERED that Executive Order G-70-204 issued on November 17, 2004 is hereby superseded by this Executive Order. Provisions in this Executive Order that differ from Executive Order G-70-204 shall be followed.

Executed at Sacramento, California, this 27th day of February 2006.


William V. Loscutoff, Chief
Monitoring and Laboratory Division