

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER G-70-209

Dresser/Wayne WayneVac/Arid Technologies Permeator  
ORVR-Compatible Phase II Vapor Recovery System

WHEREAS, the California Air Resources Board (ARB) has established, pursuant to California Health and Safety Code sections 25290.1.2, 39600, 39601 and 41954, certification procedures for systems designed for the control of gasoline vapor emissions during motor vehicle fueling operations (Phase II EVR vapor recovery systems) in its CP-201, ***Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities*** (Certification Procedure) as last amended May 25, 2006, incorporated by reference in title 17, California Code of Regulations, section 94011;

WHEREAS, Dresser/Wayne Incorporated (Dresser/Wayne) requested and was granted certification of the WayneVac Phase II vapor recovery system (WayneVac System) pursuant to the Certification Procedure by Executive Order G-70-153, first issued on November 12, 1993, and by modifications G-70-153-AA through G-70-153-AD issued on July 14, 1994, August 1, 1996, August 11, 1997 and April 3, 2000;

WHEREAS, Arid Technologies, Incorporated (Arid) requested certification of the WayneVac System with the Arid Permeator AT-150 tank pressure management system (WayneVac/Permeator System);

WHEREAS, the WayneVac/Permeator System has demonstrated compatibility when fueling vehicles equipped with onboard refueling vapor recovery (ORVR) systems;

WHEREAS, the WayneVac/Permeator System has been evaluated and shown to comply with the applicable requirements in 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 WayneVac/Permeator 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 WayneVac/Permeator 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 WayneVac/Permeator System. Exhibit 2 contains installation and performance specifications for the equipment listed in Exhibit 1. Exhibit 3 is a list of required items to consider 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, respectively. Exhibit 6 is the Warranty for Arid Technologies, Inc. Permeator tank pressure management system.

IT IS FURTHER ORDERED that WayneVac/Permeator System installations shall be limited to a maximum of 24 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 WayneVac/Permeator 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 WayneVac/Permeator 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 range specified in the WayneVac System section of Exhibit 2 of this Order. Vapor pumps and electronic components sold separately as replacement parts shall be tested after field installation to verify that the combination results in vapor recovery system performance within the range specified in the WayneVac System section of Exhibit 2 of this Order.

IT IS FURTHER ORDERED that each nozzle approved for use with the WayneVac/Permeator 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 Dresser/Wayne and ARID shall provide a warranty for the components certified as part of the WayneVac/Permeator system 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 Dresser/Wayne or ARID 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. Dresser/Wayne, ARID or other manufacturers may specify that the warranty is contingent upon the use of trained installers.

IT IS FURTHER ORDERED that the certified Permeator system shall, at a minimum, be installed, operated and maintained in accordance with the ARB approved Installation, Operation and Maintenance Manual for the Arid Permeator System. A copy of this Executive Order and manual should be maintained at each GDF where the Arid Permeator System is installed with a Dresser/Wayne WayneVac 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 Dresser/Wayne WayneVac System (Executive Order G-70-153 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 WayneVac/Permeator System is valid through March 31, 2009. After this date all vapor recovery systems shall comply with the applicable requirements listed in Table 2-1 of the Certification Procedure.

Executed at Sacramento, California, this 5<sup>th</sup> day of October 2006.



William V. Loscuttoff, Chief  
Monitoring and Laboratory Division