State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER VR-202-P

Relating to Certification of Vapor Recovery Systems

Healy Phase II Enhanced Vapor Recovery (EVR) System Including In-Station Diagnostic (ISD) Systems

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 January 9, 2013, incorporated by reference in title 17, California Code of Regulations, section 94011;

WHEREAS, ARB has established, pursuant to California Health and Safety Code sections 39600, 39601, 39607, and 41954, test procedures for determining the compliance of Phase II vapor recovery systems with emission standards;

WHEREAS, Franklin Fueling Systems, Inc. (FFS) requested and was granted certification of the Healy Phase II EVR System Including ISD pursuant to the Certification Procedure on August 31, 2005, by Executive Order VR-202-A, and last modified on April 8, 2013, by Executive Order VR-202-O;

WHEREAS, Veeder-Root Company (Veeder-Root) requested amendment of the Healy Phase II Enhanced Vapor Recovery (EVR) System Executive Order VR-202 to include an optional TLS Console security feature known as “Maintenance Tracker” and a low powered wireless vapor pressure sensor as an alternate component;

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 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, Michael T. Benjamin, Chief of the Monitoring and Laboratory Division find that the Healy Phase II EVR System including ISD conforms with all requirements set forth in the Certification Procedure, including compatibility when fueling vehicles equipped with onboard refueling vapor recovery systems, and results in a vapor recovery system which is at least 95.0 percent efficient and does not exceed 0.38 pounds of hydrocarbons per 1,000 gallons of gasoline transferred when tested pursuant to TP-201.2, ***Efficiency and Emission Factor for Phase II Systems*** (July 26, 2012).

NOW, THEREFORE, IT IS HEREBY ORDERED that the Healy Phase II EVR System including ISD is certified to be at least 95 percent efficient and does not exceed 0.38 pounds of hydrocarbon per 1,000 gallons of gasoline transferred in attended and/or self-service mode when used with an ARB-certified Phase I vapor recovery system and installed, operated, and maintained as specified herein and in the following exhibits. Exhibit 1 contains a list of the equipment certified for use with the Healy Phase II EVR System Including ISD. Exhibit 2 contains the performance standards, specifications, typical installation drawings and maintenance intervals applicable to the Healy Phase II EVR System Including ISD as installed in a GDF. Exhibit 3 contains the manufacturing specifications. Exhibit 4 is the test procedure for verifying performance of the Healy Clean Air Separator. Exhibit 5 is the vapor to liquid ratio test procedure for verifying performance of the Healy 900 Nozzle. Exhibit 6 is the manufacturer warranties. Exhibit 7 is the nozzle bag test procedure. Exhibit 8 provides Required Items in conducting TP-201.3. Exhibit 9 is the Veeder-Root ISD Operability Test Procedure. Exhibit 10 is the INCON ISD Operability Test Procedure. Exhibit 11 is the procedure for verifying performance of the Liquid Condensate Trap. Exhibit 12 is the Veeder-Root Maintenance Tracker (Optional).

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 are made conditions of this certification.

IT IS FURTHER ORDERED that each component manufacturer listed in Exhibit 1 shall provide a warranty for the vapor recovery components to the initial purchaser. The warranty shall be passed on to each subsequent purchaser within the warranty period. The warranty shall include the ongoing compliance with all applicable performance standards and specifications and shall comply with all warranty requirements in Section 16.5 of the Certification Procedure. Manufacturers may specify that the warranty is contingent upon the use of trained installers. The manufacturer warranty tag, included with each component, shall be provided to the service station owner/operator at the time of installation.

IT IS FURTHER ORDERED that every certified component manufactured by FFS, Goodyear, and Veeder-Root shall meet the manufacturing performance specifications as provided in Exhibit 3.

IT IS FURTHER ORDERED that the certified Healy Phase II EVR System Including ISD shall be installed, operated, and maintained in accordance with the ***ARB Approved Installation, Operation, and Maintenance Manual.*** Equipment shall be inspected weekly, quarterly, and annually per the procedures identified in the ***ARB Approved Installation, Operation, and Maintenance Manual***. These inspections shall also apply to systems certified by Executive Orders VR-202-A to O. A copy of this Executive Order and the ***ARB Approved Installation, Operation and Maintenance Manual*** shall be maintained at each GDF where a Healy Phase II EVR System Including ISD is installed.

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

IT IS FURTHER ORDERED that any alteration in the equipment parts, design, installation, or operation of the system provided in the manufacturers' certification application or documents and 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 Officer delegate.

IT IS FURTHER ORDERED that the following requirements are made a condition of certification. The owner or operator of the Healy Phase II EVR System Including ISD shall conduct and pass the following tests no later than 60 days after startup and at least once in each 12 month period, using the following test procedures. Shorter time periods may be specified by the District.

- TP-201.3, ***Determination of 2 Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities*** (July 26, 2012);
- Exhibit 8, ***Required Items in Conducting TP-201.3***;
- Exhibit 4, ***Determination of Static Pressure Performance of the Healy Clean Air Separator***;
- Exhibit 5, ***Vapor to Liquid Volume Ratio***;
- Exhibit 9 or Exhibit 10, ***Veeder-Root or INCON ISD Operability Test Procedures***; and
- Exhibit 11, ***Liquid Condensate Trap Compliance Test Procedure (if applicable).***

Local districts may specify the sequencing of the above tests. Notification of testing, and submittal of test results, shall be done in accordance with local district requirements and pursuant to policies established by that district. Local districts may require the use of alternate test form(s), provided they include the same minimum parameters identified in the datasheet referenced in the test procedure(s). Alternative test procedures, including most recent versions of the test procedures listed above, may be used if determined by ARB Executive Officer or Executive Officer delegate, in writing, to yield equivalent results.

IT IS FURTHER ORDERED that the following requirements are made a condition of certification. The owner or operator of the Healy Phase II EVR System Including ISD shall conduct, and pass, the following tests no later than 60 days after startup using Exhibit 7, ***Nozzle Bag Test Procedure***. TP-201.4, ***Dynamic Back Pressure*** (July 3, 2002), shall be conducted in accordance with the conditions listed in item 1 of the Vapor Recovery Piping Configurations section of Exhibit 2. Local districts have the authority to require conducting of Exhibit 5, ***Vapor to Liquid Volume Ratio***, in lieu of TP-201.4, ***Dynamic Back Pressure*** (July 3, 2002), provided that at least two 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. Local districts may require the use of alternate test form(s), provided they include the same minimum parameters identified in the datasheet referenced in the test procedure(s). Alternative test procedures, including most recent

versions of the test procedures listed above, may be used if determined by ARB Executive Officer or Executive Officer delegate, in writing, to yield equivalent results.

IT IS FURTHER ORDERED that, except as provided above, local districts at their option will specify the testing, related sequencing, and testing frequency of the nozzle vapor valves. If nozzle vapor valve tests are required by the district, the test shall be conducted in accordance with Exhibit 7, ***Nozzle Bag Test Procedure***.

IT IS FURTHER ORDERED that the Healy Phase II EVR System Including ISD shall be compatible with gasoline in common use in California at the time of certification. The Healy Phase II EVR System Including ISD is not compatible with gasoline containing more than 15 percent methanol, 15 percent ethanol, or 15 percent methyl tertiary butyl ether (MTBE). Any modifications to comply with future California gasoline requirements shall be approved in writing by the Executive Officer or Executive Officer delegate.

IT IS FURTHER ORDERED that the certification of the Healy Phase II EVR System Including ISD is valid through September 1, 2015.

IT IS FURTHER ORDERED that Executive Order VR-202-O issued on April 8, 2013, is hereby superseded by this Executive Order. Healy Phase II EVR Systems Including ISD certified under Executive Order VR-202-A through O may remain in use at existing installations up to four years after the expiration date of this Executive Order when the certification is not renewed. Veeder-Root ISD version 1.01 shall not remain in use after July 1, 2012, for multi-product dispensers with fuel blending, and INCON ISD versions 1.0.0 and 1.1.0 shall not remain in use after January 1, 2014, for multi-hose dispensers.

IT IS FURTHER ORDERED that this Executive Order shall apply to new installations or major modifications of Phase II Systems with a throughput of more than 600,000 gallons per year and replacements of Veeder-Root or Incon ISD at existing gasoline dispensing facilities. The installation of the ISD System is not authorized on a GDF with a throughput of less than or equal to 600,000 gallons per year.

Executed at Sacramento, California this 10th day of December 2013.

Michael T. Benjamin, Chief
Monitoring and Laboratory Division

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Attachments:

Exhibit 1	Equipment List
Exhibit 2	System Specifications
Exhibit 3	Manufacturing Performance Standards and Specifications
Exhibit 4	Determination of Static Pressure Performance of the Healy Clean Air Separator
Exhibit 5	Vapor to Liquid Volume Ratio
Exhibit 6	Manufacturer Warranties
Exhibit 7	Nozzle Bag Test Procedure
Exhibit 8	Required Items in Conducting TP-201.3
Exhibit 9	Veeder-Root ISD Operability Test Procedure
Exhibit 10	INCON VRM Operability Test Procedure
Exhibit 11	Liquid Condensate Trap Compliance Test Procedure
Exhibit 12	Veeder-Root Maintenance Tracker (Optional)