

**State of California
AIR RESOURCES BOARD**

Executive Order G-70-187

**Certification of the Healy Model 400 ORVR
Vapor Recovery System for Aboveground
Storage Tank Systems**

WHEREAS, the California Air Resources Board ("the Board" or "CARB") 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 motor vehicle fueling operations (Phase II vapor recovery systems) in its "CP-205 Certification Procedure for Vapor Recovery Systems of Novel Facilities" (the "Certification Procedures") as last amended March 17, 1999, incorporated by reference into Title 17, California Code of Regulations, Section 94015;

WHEREAS, the Board has established, pursuant to California Health and Safety Code sections 39600, 39601 and 41954, test procedures for determining the compliance of Phase II vapor recovery systems with emission standards in its "Determination of Efficiency of Phase II Vapor Recovery Systems of Novel Facilities", TP-205.2 ("the Test Procedures") as last amended March 17, 1999, incorporated by reference into Title 17, California Code of Regulations, Section 94015;

WHEREAS, James W. Healy of Healy Systems, Incorporated ("Healy") has requested certification of the Healy Model 400 ORVR Nozzle with central vacuum sources for previously certified integral aboveground storage tank systems pursuant to the Certification Procedures and Test Procedures;

WHEREAS, the Executive Officer has determined, pursuant to Section 3.1 of the Certification Procedures, that components used in installations of the Healy 400 ORVR System for aboveground storage tank systems must meet the same performance standards and specifications met during certification under CP-201, "Certification Procedure for Vapor Recovery Systems of Dispensing Facilities";

WHEREAS, the Healy Model 400 ORVR Vapor Recovery System (the vapor recovery system) has been evaluated pursuant to the Board's Certification Procedures;

WHEREAS, Section 7 of the Certification Procedures provides that the Executive Officer shall issue an order of certification if he or she determines that the vapor recovery system conforms to all of the requirements set forth in Section 1 through 6 of the Certification Procedures;

WHEREAS, the Executive Officer acknowledges the need for the introduction of vapor recovery systems that are compatible with, and efficient when refueling vehicles having an onboard refueling vapor recovery system (ORVR vehicles); and

WHEREAS, I, Michael P. Kenny, Air Resources Board Executive Officer, find that the Healy Model 400 ORVR Vapor Recovery System conforms with all the requirements set forth in the Certification

Procedures and results in a vapor recovery system which is at least 95 percent effective for attendant and/or self-serve use at gasoline service stations or remote locations when used in conjunction with a previously certified integral aboveground storage tank Phase I vapor recovery system and meeting the requirements contained in Exhibit 2 of this Order.

WHEREAS, Sections 3.4.1, 5.4 and 7 of CP-201 provide that the Executive Officer may condition the certification of any system;

NOW, THEREFORE, IT IS HEREBY ORDERED that Healy Model 400 ORVR System is certified to be at least 95 percent effective in attended and/or self-service mode when used with a previously certified single or split product integral aboveground storage tank Phase I vapor recovery system and which meets the requirements as specified in Exhibits 1 and 2. Fugitive emissions, which may occur when the aboveground storage tanks are under positive pressure have not been quantified and were not included in the calculation of system effectiveness. **Preliminary compatibility of this system with onboard vapor refueling vapor recovery (ORVR) systems has been determined. This system passed evaluation of refueling ORVR-equipped vehicles.** Exhibit 1 contains a list of the equipment certified for use with the Healy Model 400 ORVR System. Exhibit 2 contains installation and performance specifications for the system. Exhibit 3 contains a static pressure decay test for the Phase 1 system and vent piping. Exhibit 4 contains a static pressure decay test specifically for the Phase II piping network between the nozzle and the Healy Central Vacuum Unit. Exhibit 5 contains the Fillneck Vapor Pressure Regulation Fueling Test for the Healy Model 400 ORVR nozzle. Exhibit 6 contains the ten-gallon per minute maximum fueling rate compliance verification procedure.

IT IS FURTHER ORDERED that the following requirements are made a condition of certification. The Healy Model 400 ORVR System shall be installed only in facilities which are capable of demonstrating ongoing compliance with the vapor integrity requirements contained in Exhibit 3 (Static Pressure Decay Test), Exhibit 4 (Vapor Return Line Vacuum Integrity Test) and Exhibit 5 (Vapor Pressure Regulation Test). The owner or operator of the installation shall conduct, and pass, the specified tests no later than 60 calendar days after startup and at least once in each twelve month period. The test results shall be made available to the local air pollution control or air quality management district upon request within fifteen calendar days after the tests are conducted. Test results shall be submitted to the district in the format specified by the district.

IT IS FURTHER ORDERED that the Healy Model 400 ORVR System, as installed, shall comply with the procedures and performance standards the test installation was required to meet during certification testing. If, in the judgment of the Executive Officer, a significant fraction of the installations fails to meet the specifications of this certification, or if a significant portion of the vehicle population is found to have configurations which significantly impair the system's collection efficiency, the certification itself may be subject to modification, suspension or revocation.

IT IS FURTHER ORDERED that compliance with the certification requirements and rules and regulations of the Division of Measurement Standards of the Department of Food and Agriculture, the State Fire Marshal's Office, and the Division of Occupational Safety and Health of the Department of Industrial Relations are made a condition of this certification.

IT IS FURTHER ORDERED that the Healy Model 400 ORVR System shall, at a minimum, be operated in accordance with the manufacturer's recommended maintenance intervals and shall use the manufacturer's recommended operation and maintenance procedures as approved by CARB. Revisions to the manufacturers' manuals shall be approved by CARB. The Executive Officer may add or delete instructions from the manuals and distribute revised copies in accordance with CP-201.

IT IS FURTHER ORDERED that Healy Model 400 ORVR System installations shall have a CARB-certified System monitor as specified in Exhibit 2 except when the monthly throughput is less than 10,000 gallons.

IT IS FURTHER ORDERED that Healy Systems shall provide, to the station or facility owner, operator or designee, CARB-approved copies of the operation and maintenance manuals for the Healy Model 400 ORVR System. Healy Systems or a factory authorized representative, shall provide to the station manager or other responsible individual, instructions in the proper use of the Healy Model 400 ORVR System, its repair and maintenance schedules, and locations where system and/or component replacements can be readily obtained. Revisions to the manual are subject to approval by CARB. The Executive Officer may add or delete instructions from the manuals and distribute revised copies in accordance with CP-201.

IT IS FURTHER ORDERED that copies of this Executive Order and installation and maintenance manuals for the Healy Model 400 ORVR System shall be stored at the facility for service station type operations or at a central location for remote or unattended locations.

IT IS FURTHER ORDERED that Healy Systems shall warranty the Healy Model 400 ORVR System for at least one year, in writing, to the ultimate purchaser and each subsequent purchaser, that the vapor recovery system is designed, built and equipped so as to conform, at the time of original installation or sale, with the applicable regulations and is free from defects in materials and workmanship which would cause the vapor recovery system to fail to conform with applicable regulations. Healy Systems shall provide copies of the manufacturer's warranty for the Healy Model 400 ORVR System, to the station manager, owner or operator. Hoses, nozzles and breakaway couplings shall be warranted to the ultimate purchaser as specified above for at least one year, or for the expected useful life, whichever is longer.

IT IS FURTHER ORDERED that any alteration of the equipment, parts, design, or operation of the system certified hereby is prohibited unless such alteration has been approved by the Executive Officer or his or her designee. Any unapproved alteration shall void the certification for the specific installation where such alteration occurred.

Executed at Sacramento, California, this _____ day of _____, 1999.

signed September 13, 1999
Michael P. Kenny
Executive Officer