State of California
AIR RESOURCES BOARD

Executive Order G-70-186

Certification of the Healy Model 400 ORVR
Vapor Recovery System

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-201 Certification Procedure for Vapor Recovery Systems of Dispensing Facilities" (the "Certification Procedures") as last amended April 12, 1996, incorporated by reference into Title 17, California Code of Regulations, Section 94011;

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 "Certification and Test Procedures for Vapor Recovery Systems," CP-201.1 through CP-201.6 ("the Test Procedures") as adopted April 12, 1996, incorporated by reference into Title 17, California Code of Regulations, Section 94011;

WHEREAS, James W. Healy of Healy Systems, Incorporated (“Healy”) has requested certification of the Healy Model 400 ORVR Nozzle with central vacuum sources pursuant to the Certification Procedures and Test Procedures;

WHEREAS, the Healy Model 400 ORVR 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 7 of the Certification Procedures;

WHEREAS, Section 3.5 of the Certification Procedures provides that Phase II systems must be capable of fueling any motor vehicle that may be fueled at service stations not equipped with vapor recovery systems;

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, Sections 3.4.1, 5.4 and 7 of the Certification Procedures provide that the Executive Officer may condition the certification of any system;
WHEREAS, I, Michael P. Kenny, Air Resources Board Executive Officer, find that the Healy Model 400 ORVR 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, when used in compliance with this Order and when used in conjunction with a Phase I vapor recovery system, which has been certified by the Board and meets the requirements contained in Exhibit 2 of this Order.

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 CARB-certified Phase I system, as specified in Exhibits 1 and 2 of this Order. Fugitive emissions, which may occur when the underground storage tanks are under positive pressure have not been quantified and were not included in the calculation of system effectiveness. 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 Stage 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 compliance verification procedure.

NOW, THEREFORE, IT IS HEREBY ORDERED that the Healy Model 400 ORVR System, when used with a CARB-certified Phase I system and as specified in this Order, is certified to be at least 95 percent effective in attended or self-serve mode. **Compatibility of this system with onboard vapor refueling vapor recovery (ORVR) systems has been verified. This system passed testing and evaluation of refueling ORVR-equipped vehicles.**

IT IS FURTHER ORDERED that the dispensing rate for installations of the Healy Model 400 ORVR System shall not exceed ten (10.0) gallons per minute when only one nozzle associated with the product supply pump is operating. This is consistent with the flow-rate limitation imposed by United States Environmental Protection Agency as specified in the Federal Register, Volume 58, Number 55, page 16019. The dispensing rate shall be verified as specified in Exhibit 6.

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 Exhibits 3 and 4 of this Order. The owner or operator of the installation shall conduct, and pass, Static Pressure Decay tests as specified in Exhibits 3 and 4, no later than 60 days after startup and at least once in each twelve month period. **The owner or operator of the installation shall conduct, and pass, a Vapor Regulation Test as specified in Exhibit 5 no later than 60 days after startup and at least once in each twelve month period thereafter. The test results shall be made available to the local air pollution control or air quality management district upon request within fifteen days after the tests are conducted, or within fifteen days of the request.**

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 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 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, installation, and maintenance procedures.

IT IS FURTHER ORDERED that the Healy ORVR compatible Model 400 nozzles shall be 100 percent performance checked at the factory, including checks of the integrity of the vapor and liquid path, as specified in Exhibit 2 of this Order, and of the proper functioning of all automatic shut-off mechanisms.

IT IS FURTHER ORDERED that each central vacuum pump shall be adjusted and 100 percent performance checked at the factory, including verification that the vapor recovery system performance is within the range specified in Exhibit 2 of this Order. Central vacuum pumps sold separately as replacement parts shall be tested after field installation to verify that the vapor recovery system performance is within the range specified in Exhibit 2.

IT IS FURTHER ORDERED that Healy Model 400 ORVR System installations shall have a CARB-certified System monitor as specified in Exhibit 2 of this Order.

IT IS FURTHER ORDERED that the Healy Model 400 ORVR System shall be performance tested during installation for ability to dispense gasoline and collect vapors without difficulty, in the presence of the station manager or other responsible individual. Healy Systems shall provide, to the station owner, operator or designee, CARB-approved copies of the installation 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. Copies of this Executive Order and installation and maintenance manuals for the Healy Model 400 ORVR System shall be stored at the facility. Revisions to the manual are subject to approval by CARB.

IT IS FURTHER ORDERED that the Healy Model 400 ORVR System, shall be warranted by Healy Systems, in writing, for at least one year, 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 systems certified hereby is prohibited, and deemed inconsistent with this certification, unless such alteration has been approved by the Executive Officer or his or her designee.

Executed at Sacramento, California, this _____ day of_____, 1998.

signed October 26, 1998
Michael P. Kenny
Executive Officer