State of California
AIR RESOURCES BOARD

Executive Order G-70-175

Certification of the
Hasstech VCP-3A Vacuum Assist Phase II Vapor
Recovery System for Aboveground 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 "Certification Procedures for Gasoline Vapor Recovery Systems at Service Stations" (the "Certification Procedures") as last amended December 4, 1981, incorporated by reference into Title 17, California Code of Regulations, Section 94001;

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 "Test Procedures for Determining the Efficiency of Gasoline Vapor Recovery Systems at Service Stations" (the "Test Procedures") as last amended September 1, 1982, incorporated by reference into Title 17, California Code of Regulations, Section 94000;

WHEREAS, the VCP-3A system has been certified for underground tank systems by Executive Order G-70-164 dated April 11, 1995 and may be used with the three types of bootless nozzles listed in Exhibit 1 of this Order;

WHEREAS, Eric Hasselmann of Hasstech, Inc., ("Hasstech") has requested certification of the Hasstech VCP-3A bootless nozzle vapor recovery system (the "VCP-3A system") for aboveground tank systems pursuant to the Certification Procedures and Test Procedures;

WHEREAS, the VCP-3A system has been evaluated for use on aboveground tank systems pursuant to the Board's Certification Procedures;

WHEREAS, Section VIII-A 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 Sections I through VII of the Certification Procedures; and

WHEREAS, I, James D. Boyd, Air Resources Board Executive Officer, find that the Hasstech VCP-3A bootless nozzle aboveground storage tank vapor recovery system conforms with all the requirements set forth in Sections I through VII of the Certification Procedures and results in a vapor recovery system which is at least 95 percent efficient in attended and or self-serve use at gasoline dispensing facilities when used in conjunction with a Phase I 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 the Hasstech VCP-3A system when used with a CARB-certified Phase I system, as specified in Exhibits 1 and 2 of this Order, is certified

to be at least 95 percent effective in attended and/or self-serve mode. 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. Exhibit 1 contains a list of the equipment certified for use with the Hasstech VCP-3A system. Exhibit 2 contains installation and performance specifications for the system. Exhibit 3 contains a static pressure decay test procedure.

IT IS FURTHER ORDERED that the dispensing rate for installations of the VCP-3A 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 flowrate limitation imposed by United States Environmental Protection Agency as specified in the Federal Register, Volume 58, Number 55, page 16019.

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 is made a condition of this certification.

IT IS FURTHER ORDERED that the following requirements are made a condition of certification. The VCP-3A system shall be installed only in facilities which are capable of demonstrating on-going compliance with the vapor integrity requirements contained in Exhibit 3 of this Order. The owner or operator of the installation shall conduct, and pass, a static pressure decay test at least once in each twelve month period, and the results shall be made available to the district upon request within fifteen days after the test is conducted, or within fifteen days of the request. Alternative test procedures may be used if determined by the Executive Officer to yield comparable results.

IT IS FURTHER ORDERED that the certified VCP-3A 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 VCP-3A system, as installed, shall comply with the procedures and performance standards the test installation was required to meet during certification testing. Local districts may adopt stricter procedures or performance standards in accordance with the California Health and Safety Code section 41954(g). Failure to demonstrate compliance with procedures or performance standards stricter than those imposed during certification testing does not constitute failure of the VCP-3A system to meet the terms and conditions of this Executive Order. If, in the judgment of the Executive Officer, a significant fraction of installations fail 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 all nozzles approved for use with the Hasstech VCP-3A system 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 vapor 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.

IT IS FURTHER ORDERED that the certified VCP-3A system shall be warranted 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. Copies of the manufacturer's warranty for the VCP-3A system shall be made available 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 the certified VCP-3A 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. The station manager, owner or operator shall also be provided with instructions in the proper use of the VCP-3A system, its repair and maintenance, where system and/or component replacements can be readily obtained, and shall be provided with copies of the installation and maintenance manuals for the VCP-3A system to be maintained at the station. Revisions to the manual shall be submitted to CARB for approval.

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/her designee.

Executed at Sacramento, California, this 18th day of April 1996.

James D. Boyd
Executive Officer

Attachments