State of California
AIR RESOURCES BOARD

Executive Order G-70-118-AB

Modification to the Certification of the Amoco Oil Company V-1 Bootless Nozzle 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 "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, Amoco Oil Company ("Amoco"), requested and was granted certification of the Amoco V-1 bootless nozzle vapor recovery system (the "V-1 system") pursuant to the Certification Procedures and Test Procedures on June 24, 1988, by Executive Order G-70-118, and was granted modifications to the certification by Executive Order G-70-118-AA, issued March 10, 1993;

WHEREAS, Amoco requested certification of a modified V-1 system. The modification consists of the installation of a non-optional Efficiency Compliance Device (ECD) on the nozzle;

WHEREAS, the modified V-1 system has been evaluated 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 Amoco V-1 system with the ECD installed on the nozzle 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 effective for attendant and/or self-serve use at gasoline service stations when used in conjunction with a Phase I vapor recovery system which has been certified by the Board.

NOW, THEREFORE, IT IS HEREBY ORDERED that the Amoco system, when equipped with nozzles which have an ECD in functional condition, as defined in Exhibit 2 of this Order, and when used with a CARB-certified Phase I system, as specified in Exhibit 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 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 Amoco system. Exhibit 2 contains installation and performance specifications for the system. Exhibit 3 contains hose and dispenser configurations for the system. Exhibit 4 contains the static decay test procedure.

IT IS FURTHER ORDERED that the maximum dispensing rate for installations of the Amoco system shall not exceed ten (10.0) gallons per minute. This is consistant 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 Amoco system shall be installed only in facilities which are capable of demonstrating on-going compliance with the vapor integrity requirements contained in Exhibit 4 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 system, as installed, shall comply with the procedures and performance standards which 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 district procedures or performance standards stricter than those imposed during certification testing does not, per se, constitute failure of the V-1 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 Amoco 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 pump performance is within the range specified in Exhibit 2 of this Order.

IT IS FURTHER ORDERED that the certified V-1 system shall be warranted in writing, for at least three years, 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 V-1 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 V-1 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 certified V-1 system shall be performance tested during installation for ability to dispense gasoline and collect vapors without difficulty, in the presence of the station operator, owner or designee. The station operator, owner or designee shall be provided with copies of the installation and maintenance manuals for the V-1 system and components, to be maintained at the station, and shall also be provided with instructions in the proper use of the V-1 system, its repair and maintenance, and where and how system and/or component replacements can be readily obtained.

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.

IT IS FURTHER ORDERED that the Amoco V-1 system certification Executive Orders G-70-118, issued June 24, 1988, and G-70-118-AA, issued March 10, 1993, are hereby superceded by this Executive Order.

Executed at Sacramento, California this 31 day of March, 1995.

James D. Boyd
Executive Officer

Attachments