State of California
AIR RESOURCES BOARD

Executive Order G-70-23-AC
Modification to the Certification of the Exxon Balance Phase II 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" as last amended December 4, 1981 (the "Certification Procedures"), 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 I and Phase II vapor recovery systems with emission standards in its "Test Procedures for Determining the Efficiency of Gasoline Vapor Recovery Systems at Service Stations" as last amended September 1, 1982 (the "Test Procedures"), incorporated by reference into Title 17, California Code of Regulations, Section 94000;

WHEREAS, Exxon Company, U.S.A. ("Exxon") requested and was granted certification of the Exxon Balance Phase II vapor recovery system (the "Exxon Balance System") pursuant to the Certification Procedures and Test Procedures, on August 4, 1978, by Executive Order G-70-23;

WHEREAS, Exxon requested and was granted certification of a modification of the Exxon Balance System to include an alternate Phase I vapor return and vent piping configuration on May 14, 1990, by Executive Order G-70-23-AB;

WHEREAS, Exxon requested certification of an additional modification to the Exxon Balance System to allow the use of two Phase I product hoses with one vapor connection, or three product hoses with two vapor connections, subject to the addition of a pressure/vacuum valve on the tank vents and the conditions contained in this Order;

WHEREAS, the modified Exxon Balance 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 modified Exxon Balance 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 effective for attendant and/or self-serve use at gasoline service stations.

NOW, THEREFORE, IT IS HEREBY ORDERED that the Exxon Balance System, when installed 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. Exhibit 1 contains a list of the equipment certified for use with the Exxon system. Exhibit 2 contains installation and performance specifications for the system. Exhibit 3 contains the static pressure decay test procedure. Exhibit 4 contains the dynamic back pressure test procedure. Exhibit 5 contains the flowrate procedure.

IT IS FURTHER ORDERED that all systems installed after the effective date of this Order shall include pressure/vacuum vent valves as specified in Exhibits 1 and 2.

IT IS FURTHER ORDERED that the dispensing rate for installations of the Exxon Balance System shall not exceed ten (10.0) gallons per minute when only one nozzle associated with the product supply pump is operating, as specified in Exhibit 5.

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 Exxon Balance 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, in writing, to yield comparable results.

IT IS FURTHER ORDERED that the 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 district procedures or performance standards stricter than those imposed during certification testing does not, per se, constitute failure of the Exxon Balance 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 Exxon Balance System shall be 100 percent performance checked at the factory, including checks of the integrity of the vapor and liquid paths as specified in Exhibit 2 of this Order, and of the proper functioning of all automatic shut-off mechanisms.

IT IS FURTHER ORDERED that the certified Exxon Balance 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 Exxon Balance 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 certified Exxon Balance System and components, to be maintained at the station, and shall also be provided with instructions in the proper use of the certified Exxon Balance 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 Exxon Balance System certification Executive Order G-70-23-AB, issued May 14, 1990, is hereby superseded by this Executive Order.

Executed at Sacramento, California, this 29th day of April, 1996.

James D. Boyd
Executive Officer

Attachments