

State of California
AIR RESOURCES BOARD
Executive Order G-70-188

**Certification of the
Catlow ICVN Vapor Recovery Nozzle System for use with
the Gilbarco VaporVac 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, Paul D. Carmack of Catlow Incorporated ("Catlow") has requested certification of the Catlow ICVN Phase II Vapor Recovery Nozzle System for use with the Gilbarco VacVapor Vapor Recovery System (Catlow ICVN/VaporVac System) pursuant to the Certification Procedures and Test Procedures;

WHEREAS, the Catlow ICVN System has been evaluated pursuant to the Board's Certification Procedures with the Gilbarco VaporVac Phase II Vapor Recovery System (VaporVac system); as certified in G-70-150-AD;

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, 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 Catlow ICVN/VaporVac 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 Phase I vapor recovery systems which have been certified by the Board and meets the requirements contained in Exhibits 1 and 2 of this Order.

NOW, THEREFORE, IT IS HEREBY ORDERED that the Catlow ICVN/VaporVac System, when used with CARB-certified Phase I systems and as specified in this Order, is certified to be at least 95 percent effective in attended or self-serve mode. **Compatibility of this nozzle with onboard vapor refueling vapor recovery (ORVR) systems, and fugitive emissions which may occur when the underground storage tanks are under positive pressure, have not yet been quantified and were not included in the calculation of nozzle effectiveness. This nozzle shall be subject to testing and evaluation of effectiveness when fueling ORVR-equipped vehicles six months after the Board adopts applicable test procedures.** Exhibit 1 contains a list of the equipment certified for use with the Catlow ICVN/VaporVac System. Exhibit 2 contains installation and performance specifications for the Catlow ICVN/VaporVac System. Exhibit 2 contains installation and performance specifications for the system. Exhibit 3 contains a procedure for testing the static pressure integrity of the underground storage tank. Exhibit 4 contains a procedure for verifying the dispensing rate. Exhibit 5 contains a template for the notification to prospective customers and owners/operators.

IT IS FURTHER ORDERED that the dispensing rate for installations with the Catlow ICVN/VaporVac System shall not exceed ten (10.0) gallons per minute at any nozzle. This is consistent with the flowrate limitation imposed by United States Environmental Protection Agency as specified in the Title 40, Code of Federal Regulations, Part 80, section 80.22. Dispensing rate shall be verified as specified in Exhibit 4.

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 following requirements shall be made a condition of certification. The Catlow ICVN/VaporVac System shall be installed with the equipment designated in Exhibit 1 only in facilities that are capable of demonstrating ongoing 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 as specified in Exhibit 3, 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, an Air-to-Liquid Ratio test as specified in TP-201.5 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. Alternative test procedures may be used if determined by the Executive Officer, in writing, to yield comparable results.

IT IS FURTHER ORDERED that the following requirement shall be made a condition of certification. Within 180 days of the effective date of the Board's adopted test procedure for determining whether a vapor recovery system is efficient when fueling ORVR vehicles (ORVR Efficiency Test Procedure), this Order shall expire as provided in CP-201 section 1, unless it can be demonstrated that the Catlow ICVN/VaporVac System is able, without modification, to meet the requirements of the ORVR Compatibility Test Procedure.

IT IS FURTHER ORDERED that the Catlow ICVN/VaporVac System, as installed with the Gilbarco VaporVac Phase II Dispenser, shall comply with the procedures and performance standards that the test installation was required to meet during certification. 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 with the Catlow ICVN/VaporVac System, the certification itself may be subject to modification, suspension or revocation.

IT IS FURTHER ORDERED that the Catlow ICVN/VaporVac System shall, at a minimum, be operated in accordance with the system component manufacturers' recommended maintenance intervals and shall use the system component manufacturers' recommended installation, operation, and maintenance procedures. Catlow shall provide, to the owner/operator of each station at which this system is installed, instructions regarding the appropriate Air to Liquid ratio for this system, as specified in Exhibit 2. The Catlow ICVN/VaporVac System shall be installed only with the components listed in Exhibit 1 of this Order. Nozzles listed in Exhibit 1 of the VaporVac certification Order, G-70-150-AD, are not certified for use with this system.

IT IS FURTHER ORDERED that the Catlow ICVN/VaporVac System shall be warranted by Catlow, in writing, for at least one year, to the ultimate purchaser and each subsequent purchaser within the warranty period, that the Catlow ICVN/VaporVac 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 Catlow ICVN/VaporVac System to fail to conform with applicable regulations. Catlow shall provide copies of the manufacturers' warranty for the Catlow ICVN/VaporVac System, to the station manager, owner or operator.

IT IS FURTHER ORDERED that Catlow shall provide to all prospective customers, and to the owner/operator of each station in which this system is to be installed, a notification, as specified in Exhibit 5, of the following:

Only equipment listed in Exhibit 1 of this Order shall be used with this system (i.e., Catlow ICVN nozzles shall not be used in combination with any other type of nozzles);

The installation of the system under this Executive Order may require application for a new Permit to Operate; and

The Air to Liquid (A/L) ratio range is different from the Gilbarco VaporVac system certified under G-70-150 and subsequent revisions and requires adjustment when the Catlow ICVN nozzles are installed.

IT IS FURTHER ORDERED that this certification is conditional upon receipt by CARB of a copy of the above notification as provided to each owner/operator of each station in which this system is installed. A copy of the notification shall be made available to the local air pollution control or air quality management district upon request within 15 days of notification to the owner/operator or within 15 days of the request.

IT IS FURTHER ORDERED that Catlow ICVN VaporVac 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 the Catlow ICVN/VaporVac 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. Catlow shall provide, to the station owner, operator or designee, CARB-approved copies of the installation and maintenance manuals for the Gilbarco VaporVac Dispenser and for the Catlow ICVN Vapor Recovery Nozzle, its repair and maintenance schedule, and where Catlow ICVN/VaporVac System parts and/or component replacements can be readily obtained, which are to be stored at the facility. Revisions to the manuals are subject to approval by CARB.

IT IS FURTHER ORDERED that, if the Catlow ICVN/VaporVac system requires modification in order to meet the ORVR Compatibility Test Procedure, for a period of four years after CARB has certified ORVR-compatible Catlow ICVN nozzles, Catlow shall extend a continuous offer, either directly or indirectly (through Catlow's dealer network) to any owner of a nozzle which is part of a Phase II system, to replace the Catlow ICVN nozzle (replaced Catlow nozzle) with a CARB-certified, ORVR-compatible vapor recovery nozzle (ORVR-compatible nozzle). The modifications which are necessary to achieve compatibility with ORVR systems under the Board's adopted ORVR Compatibility Test Procedure shall be included in the replacement nozzle, with no additional costs for the modification. The replacement nozzle shall be made available on such terms as Catlow customarily imposes, at no additional cost as a factory rebuilt nozzle of the same model as the replaced Catlow ICVN nozzle, subject to normal price increases over time.

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 _____, 1999.

signed May 18, 1999

Michael P. Kenny
Executive Officer