Cal/EPA
California Environmental Protection Agency

Air Resources Board
P.O. Box 2815
2020 L Street
Sacramento, CA
95812-2815

Pete Wilson
Governor

James M. Strock
Secretary for Environmental Protection

June 20, 1996

Mr. Thomas A. Hanna
Design Engineer
Catlow Inc.
2750 U.S. Route 40
Tipp City, Ohio 45371

Dear Mr. Hanna: #96-17

Approval of Catlow Inc. Model C200CVS Re-Connectable Standard Coaxial Breakaway

You requested California Air Resources Board (CARB) certification of the Catlow Incorporated Model C200CVS standard coaxial breakaway assembly with re-connectable feature on March 11, 1996. The Model C200CVS breakaway is intended for use with gasoline dispensing devices having vapor recovery capabilities. It is used between two hose assemblies to safeguarded against excessive pull force on the hose assembly and dispenser. The Model C200CVS is similar to the currently CARB certified Catlow Model C200CV breakaway, Approval Letter # 95-23, except that it incorporates a re-connectable feature. Both the C200CV and the C200CVS breakaways are for use with Phase II vapor recovery systems that incorporate standard coaxial hoses.

The Catlow C200CVS breakaway consists of an outer vapor carrying assembly and an inner fluid carrying assembly. The unit consists of a rigid two piece non-swiveling assembly with vapor and fluid check valves in the section attached to the hose from the dispenser. The section closest to the nozzle contains a fluid check valve only. The vapor check valve is maintained open when coupled by the annular body of the male assembly. The fluid check valves are maintained open when coupled by the opposing forces on the male and female spindles of the fluid check valves. The coupled assembly is held together by a spring/groove assembly. An annular stainless steel spring is fitted in a machined groove in the female assembly. When coupled, the spring fits into a corresponding machined groove in the male assembly. The coupled halves are designed to separate when subjected to a pull force not exceeding 350 pounds, thus relieving the pull forces on the dispenser and hose assemblies.

The Model C200CVS breakaway is intended for use with gasoline dispensing devices having standard coaxial vapor recovery capabilities and working pressures not exceeding 50 (psi). The unit shall be installed in conformity with the manufacturer's

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instructions and all applicable codes and ordinances. As required by the California State Fire Marshal (CSFM), the listee's name, model number, ETL Mark, and maximum separation force shall be provided on the coupling body.

As required by CARB certification procedures, you requested the approval of the Division of Occupational Safety and Health, the Office of the State Fire Marshal, and the Department of Agriculture, Division of Measurement Standards. The necessary approvals have been obtained from these agencies.

I find that the use of the Model C200CVS breakaway, when installed in accordance with the manufacturer's instructions and the conditions listed above, will not adversely affect the performance of vapor recovery systems on which it is installed. Therefore, the Catlow Incorporated Model C200CVS standard coaxial breakaway assembly with vapor check valve is certified for use with CARB certified Phase II vapor recovery systems that incorporate standard coaxial hoses.

If you have any questions or wish to discuss this matter further, please call Paul Thalken at (916) 445-0383 or Laura McKinney at (916) 327-1525.

Sincerely,

James J. Morgester, Chief
Compliance Division

cc: Mr. Jim Johnston, Chairman,
CAPCOA Vapor Recovery Committee

Mr. Gary Hunter, Manager,
CARB Compliance Assistance Section