STATE OF CALIFORNIA

PETE WILSON, Governor

AIR RESOURCES BOARD
2020 L STREET
P.O. BOX 2815
RAMENTO, CA 95812

April 27, 1995

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

#95-23

Dear Mr. Hanna:

Approval of the Catlow Model C200CV Coaxial Breakaway

You requested California Air Resources Board (CARB) certification of the Catlow Incorporated Model C200CV standard coaxial breakaway assembly with vapor check valve on February 15, 1995. The Model C200CV breakaway is intended for use with gasoline dispensing devices having vapor recovery capabilities. It is used between two hose assemblies to safeguard against excessive pull force on the hose assembly and dispenser.

The Model C200CV breakaway is similar to the currently CARB certified Catlow C200 breakaway (Executive Order #G-70-52-AM). The C200CV breakaway includes an internal check valve in the vapor path of the breakaway while the original C200 breakaway does not feature a vapor check valve. The internal vapor check valve in the C200CV unit closes the vapor path of the breakaway in the event of separation.

The Catlow C200CV 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 by four stainless steel actuator pins which are rigidly mounted in the housing assembly. The fluid check valves are maintained open when coupled by opposing forces on the male and female spindles. The coupling assembly is held together by two aluminum shear pins. The coupling halves are designed to separate when subjected to a pull force not exceeding 350 pounds, thus relieving the pull forces on the hose assemblies and dispenser. The coupling assembly is only reconnectable in the field by qualified maintenance and repair personnel.

The Model C200CV breakaway is intended for use with gasoline dispensing devices having standard coaxial vapor recovery capabilities and working pressures not exceeding 50 pounds per square inch (psi). The unit shall be

installed in conformity with the manufacturer's 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 the Air Resources Board 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 Food and Agriculture, Division of Measurement Standards. The necessary approvals have been obtained from these agencies.

I find that the use of the Model C200CV 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 C200CV standard coaxial breakaway assembly with vapor check valve is certified for use with balance type Phase II vapor recovery systems and the Amoco V-1 vapor recovery system as listed in CARB Executive Order #G-70-118-AB.

Should you have any questions or need further assistance, please contact Mr. Basharat Iqbal at (916) 324-7343 or Ms. Laura Sullivan McKinney at (916) 327-1525.

Sincerely,

James J. Morgester, Chief
Compliance Division

cc: Mr. Kenneth Kunaniec, Chairman,
CAPCOA Vapor Recovery Committee

Mr. Gary Hunter, Manager,
CARB Compliance Assistance Section