STATE OF CALIFORNIA

PETE WILSON, Governor

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

June 13, 1994

Mr. Larry Wohlford
Quality Manager
Richards Industries
Route 3, Box 45
Rockwood, Tennessee 37854

#94-13

Dear Mr. Wohlford:

Approval of the Richards CX-41 and CX-42 Standard Breakaways

You requested California Air Resources Board (CARB) approval of the Richards Industries Models CX-41 and CX-42 standard coaxial breakaway couplings.

The CX-41 and CX-42 standard coaxial non-swiveling reconnectable breakaway couplings consist of a male spud and a female body assembled within a sleeve. The spud and the body each contain integral fluid check valve assemblies. Additionally, only the CX-41 unit contains a vapor check valve assembly. The body contains an internal spring which secures the male spud when the coupling is completely assembled. When the body and spud are subjected to 290 pounds pull force, the force exceeds the spring force holding the device together, thus releasing the male spud. The fluid check valve prevents the escape of liquids from the dispenser end of the hose. With the CX-41 unit only, the vapor check valve prevents the escape of vapors from the dispenser end of the hose.

The CX-41 and CX-42 units are for use with gasoline dispensing devices having vapor recovery capabilities and working pressures not exceeding 50 pounds per square inch. The CX-41 and CX-42 breakaways are used between standard coaxial vapor recovery hose assemblies to safeguard against abnormally excessive pull forces on the hoses and dispenser. The couplings are only for use near the outlet of a "high hose" dispenser as the inlet end is not designed to be subject to impact with the driveway in the event of a separation. Couplings are easily reconnected after separation.

The CX-41 and CX-42 units shall only be installed on high hose dispensers and in conformity with the manufacturer's written instructions and all applicable codes. The CX-42 unit (without vapor valve) shall only be used when a vapor valve or flame arrestor is provided between the hose and dispenser shear valve. The listee's name, model number, direction of flow, maximum rated separation force, warning statement and recoupling instructions shall appear on an adhesive backed non fade label provided by

the manufacturer. The California State Fire Marshal seal and certification shall appear on an adhesive backed non fade label, separate from installation instructions, warnings, and other similar information. Also, the Underwriters Laboratories (UL) listing mark and label shall be in accordance with UL Standards.

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 CX-41 and CX-42 breakaways, 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 they are installed. Therefore, the Richards Industries Models CX-41 and CX-42 standard coaxial breakaway couplings are certified for use with Phase II vapor recovery systems using standard coaxial hose assemblies.

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