STATE OF CALIFORNIA

PETE WILSON, Governor

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

August 2, 1995

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

#95-28

Dear Mr. Wohlford:

Approval of the Richards Industries VA50B and VA51B Breakaway Couplings

You requested California Air Resources Board (CARB) certification of the Richards Industries Models VA50B and VA51B inverted coaxial breakaway couplings on February 13, 1995.

The Richards VA50B and VA51B breakaways are identical to the CARB certified Richards VA50 and VA51 breakaways (Approval Letters 93-17 and 93-18) except for the load mechanism. The load mechanism controls how the unit separates when it is subjected to a pull force not exceeding 350 pounds. The load mechanism is external to the vapor path and the vapor paths of the VA50B and VA51B are identical to the vapor paths of the original VA50 and VA51 units. The load mechanism used in the VA50B and VA51B breakaways is identical to the type of load mechanism used in the CARB certified Richards CX-41 breakaway (Approval Letter 94-13).

The Richards Industries Models VA50B and VA51B inverted coaxial non swiveling aluminum emergency breakaway couplings consist of a male spud and a double female body assembled within a sleeve. Each spud and body contain an integral fluid check valve. Additionally, the male spud on the VA50B contains a vapor check valve assembly. Separation occurs when the coupling assembly is subjected to a pull force not exceeding 350 pounds. The body of the breakaway assemblies contains an internal spring which secures the male spud when the coupling is completely assembled. When the pull force exceeds the spring force holding the device together, thus releasing the male spud, the fluid check valve prevents the escape of liquid from the hose line. If a VA50B unit is installed, a vapor check valve assembly also prevents the escape of vapor from the dispenser end of the hose in the event of separation.

The VA50B breakaway coupling is designed for use with the following assist type vapor recovery systems which use inverted coaxial hoses with metric 34 type threads:

Gilbarco VaporVac	Executive Order G-70-150-AC
Dresser Wayne WayneVac	Executive Order G-70-153-AA
Tokheim MaxVac	Executive Order G-70-154
OPW VaporEZ	Executive Order G-70-163
Hasstech VCP 3A	Executive Order G-70-164

Since the VA51B unit does not have a check valve in the vapor path, it may only be used on assist type vapor recovery systems, using inverted coaxial

hoses and metric 34 type threads, which incorporate a mechanism that closes the vapor path in the event the breakaway becomes separated. Currently only the following system meets these conditions:

Gilbarco VaporVac	Executive Order G-70-150-AB

The VA50B and VA51B breakaways are intended for use with gasoline dispensing devices having vapor recovery capabilities and working pressures not exceeding 50 pounds per square inch (psi). The units shall be installed between two gasoline hose assemblies to safeguard against abnormally excessive pull forces on the hose assembly and dispenser. The breakaways shall also 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, the model number, and the Underwriters Laboratories (UL) label shall be provided on a UL listed self adhesive label and attached to 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 VA50B and VA51B breakaway units, when installed in accordance with the manufacturer's instructions and the conditions listed above, will not adversely affect the performance of assist vapor recovery systems on which they are installed. Therefore, the Richards Industries VA50B inverted coaxial breakaway coupling is certified for use with the following systems:

Gilbarco VaporVac	Executive Order G-70-150-AC
Dresser Wayne WayneVac	Executive Order G-70-153-AA
Tokheim MaxVac	Executive Order G-70-154
OPW VaporEZ	Executive Order G-70-163
Hasstech VCP 3A	Executive Order G-70-164

The Richards Industries VA51B inverted coaxial breakaway coupling is certified for use with the Gilbarco VaporVac System (Executive Order G-70-150-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