STATE OF CALIFORNIA PETE WILSON, Governor

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

October 24, 1995

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

#95-35

Dear Mr. Wohlford:

Approval of the Richards Industries STVA and STVA1 Units

You requested California Air Resources Board (CARB) certification of the Richards Industries Model STVA and STVA1 breakaway/swivel combination units.

The Richards STVA and STVA1 units are swivel devices with breakaway valves designed for use with assist type vapor recovery systems and inverted coaxial hoses and nozzles. The STVA unit has a check valve in the vapor passage of the breakaway while the STVA1 unit does not have a check valve in the vapor passage of the breakaway. The connectors incorporate M34 by 1.5 inverted coaxial threads and have a female inlet and and a male outlet. The maximum rated separation force for the breakaway is 350 pounds. The breakaway portion of the units are designed to be reassembled after separation.

The STVA and STVA1 couplings consist of an integral male plug and female body with integral check valves in each component. The body contains an internal spring which secures the male spud when the coupling is completely assembled. When the coupling is subjected to a pull force exceeding the spring force which holds the device together, the male spud separates from the body. The check valves prevent the escape of liquid from the hose assembly and nozzle. The STVA unit also incorporates a vapor check valve in the inlet end that prevents the escape of vapor from the hose assembly.

The STVA and STVA1 units are intended for use with inverted coaxial vapor recovery applications to safeguard against abnormally excessive pull forces on the hose assembly and dispenser. These units are also intended for the transfer of gasoline at liquid pressures not exceeding 50 pounds per square inch gage (psig). The couplings incorporate a swivel joint that permits rotation of the hose or nozzle so that it may be manipulated without placing torsional stress on the hose assembly. The units shall be installed between the gasoline hose assembly and the nozzle. As required by the California State Fire Marshal (CSFM), the units shall be installed in accordance with the manufacturer's installation instructions and all applicable codes. The listee's name, model designation, Underwriters Laboratories (UL) Mark and maximum rated separation force shall be cast in the unit body or provided on a recognized, adhesive-backed label applied across the cover of the device.

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 STVA unit, 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 it is installed. Therefore, the Richards Industries Model STVA breakaway/swivel combination unit (with internal vapor check valve) is certified for use with the following CARB approved Phase II vapor recovery systems:

Gilbarco VaporVac	Executive Order G-70-150-AB
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

I also find that the use of the STVA1 unit, 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 it is installed. Therefore, the Richards Industries Model STVA1 breakaway/swivel combination unit (without internal vapor check valve) is certified for use with the following CARB approved Phase II vapor recovery systems:

Gilbarco VaporVac	Executive Order G-70-150-AB
Hasstech VCP 3A	Executive Order G-70-164

**Note: The STVA1 unit may only be used with Hasstech VCP 3A systems which incorporate a remote vapor valve, ie a Hasstech CFC-1 flow control valve.

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