Cal/EPA
California Environmental Protection Agency

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

August 30, 1996

Pete Wilson
Governor

James M. Strock
Secretary for Environmental Protection

Larry Wohlford
Richards Industries, Inc.
129 Manufacturers Road
Rockwood, TN 37854

#96-22

Dear Mr. Wohlford:

Model FRVAD Flow Limiter

You requested California Air Resources Board (CARB) certification of the Richards Industries FRVAD Flow Limiter. This device is designed to limit the dispensing rate of gasoline to 10 gallons per minute (gpm) at any pressure up to 50 psig.

The FRVAD model flow limiter can be utilized on vapor recovery systems utilizing inverted coaxial hoses. This device consists of an inner line for returning vapors to the storage tank, the outer portion is designed to restrict flow rates below 10 gpm. The unit is installed between the dispenser outlet and the hose assembly. It is equipped with a standard male and female coaxial hose fittings used on vapor recovery systems. The flow limiter shall be installed in accordance with the manufacturer's instructions and all applicable codes. The component shall be marked with the following: the manufacturer's name, model number, date of manufacture, and direction of flow., The Listing Mark shall be a U.L. approved adhesive backed label.

As required by CARB certification procedures, the necessary approvals have been obtained from the Division of Occupational Safety and Health, the State Fire Marshal, and the Department of Food and Agriculture, Division of Measurement Standards. I find that the use of the FRVAD Flow Limiter, when installed in accordance with the manufacturer's instructions, will not adversely effect the performance of the vapor recovery system. Therefore, the FRVAD Flow Limiter is certified for use with Phase II vacuum assist vapor recovery systems.

If you have any questions or need further assistance, please contact Joe Guerrero at (916) 324-7343 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