STATE OF CALIFORNIA

PETE WILSON, Governor

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

November 29, 1993

Jeffrey M. Berger
Application Engineer
Dayco Products, Inc.
Springfield Technical Center
Post Office Box 3258
Springfield, MO 65808-3258

#93-23

Dear Mr. Berger:

Approval of the Dayco "Spider" Venturi Liquid Removal Device

You requested California Air Resources Board (CARB) approval of the Dayco Products "spider" venturi liquid removal device for use with the Dayco Model 7574 Petroflex 2000 standard coaxial hose.

The "spider" venturi liquid removal device is mounted on the inner liquid line of the Model 7574 Petroflex 2000 standard coaxial hose. As fluid flows through the inner hose, a vacuum occurs at the venturi within the venturi assembly. Three (3) synthetic rubber valves are ported to the venturi to allow flow only from the outer hose cavity to the liquid line. Should any condensed liquid exist in the outer cavity, the vacuum at the rubber valves draws the liquid into the liquid flow and is dispensed with the normal liquid flow. This ultimately prevents shutoff of the nozzle due to a vapor line restriction caused by condensed liquid in the vapor passage.

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 Dayco "spider" venturi devices, when installed in accordance with the manufacturer's instructions, will not adversely affect the performance of vapor recovery systems on which they are installed. Therefore, the Dayco Products "spider" venturi liquid removal devices, when installed in Dayco Model 7574 Petroflex 2000 standard coaxial hoses, are certified for use on approved Phase II balance type vapor recovery systems.

If you have any questions, please call Basharat Iqbal at (916) 324-7343 or Laura Sullivan McKinney at (916) 327-1525.

Sincerely,

James J. Morgester, Chief
Compliance Division

cc: Vapor Recovery Technical Committee