STATE OF CALIFORNIA

PETE WILSON, Governor

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

September 6, 1994

Mr. C. Leonard Terlizzi
Manager - Petroleum Marketing Hose
Thermoid
HBD Industries, Incorporated
Post Office Box 2521
North Canton, Ohio 44720

#94-21

Dear Mr. Terlizzi:

Approval of the Thermoid Hi-Vac S Inverted Hose Assembly

Ivan T. Straga of HBD Industries Incorporated/Thermoid (Thermoid) requested California Air Resources Board (CARB) approval of the Thermoid Hi-Vac S inverted coaxial hose assembly.

The Thermoid Hi-Vac S inverted coaxial hose assembly consists of two hoses and is intended for use with vacuum assist vapor recovery systems. It is identical to the CARB certified Thermoid Hi-Vac hose (Approval Letter #92-23 dated October 20, 1992) except for a smaller diameter outer product hose. The outer product hose is designed to handle gasoline dispensed into a vehicle while the inner hose is used for returning displaced gasoline vapors to the service station's underground storage tank.

The outer product hose consists of a .800 inch inner diameter synthetic rubber tube with a brass plated steel wire reinforced braid applied directly over the tube. The maximum operating pressure rating of the outer hose is 50 pounds per square inch (psi). The inner vapor hose consists of a .3125 inch inner diameter synthetic rubber tube with a brass plated steel wire braid applied directly over the tube which is surrounded by a synthetic rubber cover. The maximum pressure rating of the inner hose is 5 psi.

The Hi-Vac S hose assembly shall be installed in conformity to the manufacturer's instructions and all applicable codes. The listee's name "HBD/THERMOID" and model designation "HI-VAC S HOSE" shall be stamped or embossed on the outer hose coupling. The Underwriters Laboratories (UL) Mark shall be printed on an recognized adhesive backed label and affixed to the outer cover of the hose assembly or stamped/embossed on the outer hose coupling. In addition, the statement "This Hi-Vac S Hose has metric threads M34 x 1.5 mm" shall be applied to the smallest shipping carton.

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 Thermoid Hi-Vac S inverted hose, 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 it is installed. Therefore, the Thermoid Hi-Vac S inverted coaxial hose assembly is certified for use with the following Phase II vacuum assist vapor recovery systems:

Hasstech VCP 2/2A	(Executive Order #G-70-7-AD)
Gilbarco VaporVac	(Executive Order #G-70-150-AB)
Dresser/Wayne WayneVac	(Executive Order #G-70-153-AA)
Tokheim MaxVac	(Executive Order #G-70-154)

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