STATE OF CALIFORNIA

PETE WILSON, Governor

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

March 6, 1995

Mr. Glenn K. Walker
President
Vapor Systems Technologies, Inc.
424 North Irwin Street
Dayton, Ohio 45403

#95-4

Dear Mr. Walker:

Approval of the VST VST-CV Safety Check Valve

You requested certification of the Vapor Systems Technologies (VST) VST-CV safety check valve for use with the VSTaflex inverted coaxial hose assembly on September 8, 1994. The VST-CV safety check valve is built into the vapor coupling of a VSTaflex inverted coaxial hose (CARB approved on October 19, 1994, and listed in Approval Letter #94-25).

The unit remains open and "invisible" during normal operation, but closes and seals to prevent fuel spillage through the vapor passage into the nozzle spout should there be any malfunction or breach between the vapor and fuel lines. Activation of the safety check valve occurs only when catastrophic damage to the hose assembly occurs. The valve is installed in the hose assembly (near the nozzle connection) and is designed to operate only when the internal hose is subject to system pressure in the vapor area of the coaxial hose assembly. The valve does not effect the efficiency of the hose assembly and provides added protection from unwarranted or undesired fuel spillage through the vapor holes of the nozzle.

The VST-CV shall be installed on the nozzle end of a VSTaflex inverted coaxial hose assembly at the factory. No field installation of the unit is allowed. The hose assembly shall have markings indicating nozzle end and dispenser end. The VSTaflex hose assembly shall be installed on the dispenser in conformity with the manufacturer's installation instructions and all applicable laws and regulations. As required by the California State Fire Marshal (CSFM), the listee's name "Vapor Systems Technologies, Inc." and the model name and number and Underwriters Laboratory mark shall be labeled on the hose ferrule and/or pressure stamped into the end couplings. The VSTaflex hose shall also have a label indicating that the VST-CV safety check valve is installed within it.

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 VST-CV unit, when installed in accordance with the manufacturer's instructions and the conditions listed above, will not adversely affect the performance of the VSTaflex hose in which it is installed. Therefore, the VST VST-CV safety check valve is certified for use with the VST VSTaflex inverted coaxial hose assembly.

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