

AIR RESOURCES BOARD2020 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

#95-8

Dear Mr. Walker:

Approval of the VSTA-S Standard Coaxial Hose and Swivel Assembly

You requested California Air Resources Board (CARB) certification of the VST Model VSTA-S standard coaxial hose and swivel assembly on March 18, 1993. The new swivel units are installed on a VSTA-S standard coaxial hose and work in conjunction with nozzles which have liquid removal capability (slurpie nozzles). The swivel fitting would allow the nozzle to swivel without affecting the slurpie pickup tube.

You requested approval of your swivel devices for use with the following nozzles:

OPW 111VX
OPW 211VX
Husky VLX
OPW 11VAA
Husky VI

In order for the VSTA-S hose to be connected properly with the nozzles, the nozzles need to have an adaptor fitting installed. This adaptor fitting shall be installed at the factory by the nozzle manufacturer. As a result of including this nozzle fitting, the nozzle model number would change even though the nozzle would be identical to the original nozzle (except for including the adaptor fitting). The model numbers would be as follows:

OPW 111VX would be OPW 111VXS
OPW 211VX would be OPW 211VXS
Husky VLX would be Husky VLX2
OPW 11VAA would remain OPW 11VAA
Husky VI would be Husky VIVST

The VSTA-S hose is slightly different than a typical coaxial hose. The modified nozzles (with adaptor fitting) could only fit onto the VSTA-S hose and not on any other coaxial hose. However, the VSTA-S hose could fit onto any balance nozzle.

The VSTA-S hose assembly's inner hose consists of a synthetic rubber tube of a black rubber surrounded by a fabric braid reinforcement and covered with a black synthetic rubber. The braid reinforcement adheres

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firmly to the tube/cover and is provided with a standard wire for electric bonding. The inner hose has an inside diameter of 5/8 inches. The outer hose is composed of a corrugated polyester elastomer. The outer hose has an inside diameter of 1-1/4 inches. As required by the California State Fire Marshal (CSFM), the hose assembly shall be installed in conformity with the manufacturer's instructions and all applicable codes. Specifically, with the Automotive and Marine Station Code of the National Fire Association (NFPA30-A). The listee's name "Vapor Systems Technologies, Inc." and the model number shall be molded or heat stamped on the end cuff.

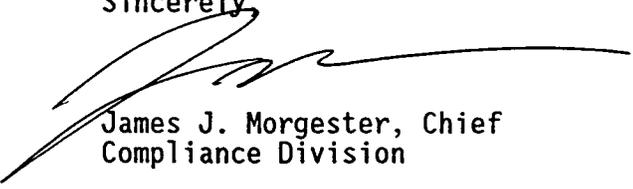
As required by the Air Resources Board certification procedures, you requested the approval of the Division of Occupational Safety and Health, the Office of the State Fire Marshal and the Department of Food and Agriculture, Division of Measurement Standards. The necessary approvals have been obtained from these agencies.

I find that the use of the VSTA-S hose assembly, when installed in accordance with the manufacturer's instructions and the conditions listed above, will not adversely affect the performance of the nozzles on which it is installed. Because the VSTA-S hose assembly can fit on any balance nozzle, it is approved for use with use with any CARB certified balance type Phase II vapor recovery nozzle. I also find that the use of the liquid removal type nozzles associated with the hose/swivel assembly will not adversely affect the performance of vapor recovery systems on which they are installed. Because these nozzles can only fit onto the VSTA-S hose, they are approved for use only with the VST Model VSTA-S standard coaxial hose and swivel assembly. These nozzles are:

OPW 111VXS
OPW 211VXS
Husky VLX2
OPW 11VAA
Husky V1VST

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
Mr. Donald L. Leininger, OPW Fueling Components
Mr. Arthur C. Fink, Jr., Husky Corporation

Mr. Glenn K. Walker

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cc addresses

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