STATE OF CALIFORNIA

PETE WILSON, Governor

AIR RESOURCES BOARD
2020 L STREET
BOX 2815
AMENTO, CA 95812

February 9, 1996

Mr. Donald L. Leininger
Technical Liaison Manager
OPW Fueling Components
Post Office Box 405003
Cincinnati, Ohio 45240-5003

#96-3

Dear Mr. Leininger:

Approval of the OPW Model 66FLB Breakaway/Flow Limiter

You requested California Air Resources Board (CARB) certification of the OPW Model 66FLB breakaway coupling/flow limiter combination unit.

The 66FLB unit is a combination reconnectable breakaway coupling with internal vapor valve and a flow limiting device intended for use with inverted coaxial hose systems. It is designed to separate when a maximum force of 300 pounds is applied, safeguarding the hose assembly and/or product dispenser from damage resulting from excessive force.

The 66FLB assembly consists of an internal male and female body with integral liquid and vapor check valves in each component. These parts are slipped together within an outer sleeve assembly and held in place by an internal locking assembly under spring loading. When the coupling assembly and the connecting hose assemblies are subjected to a pull force, the coupling halves will separate relieving the pull force. The check valves prevent the escape of flammable liquids and vapors when the two body components separate. The coupling halves can be connected back together after they have been separated. The inlet and outlet connections consist of female threads using M34 type straight threads.

The flow limiting feature is designed to limit the liquid product flowrate to 10 gallons per minute (gpm) at any pressure up to 50 psig. The unit is installed between the whip hose and the main hose assemblies. The inner passage is for returning displaced gasoline vapors to the storage tank or processing unit. The outer passage carries the liquid fuel through the flow limiter portion of the device to the fuel dispensing nozzle. The liquid and vapor lines are rated 50 and 1/2 psi, respectively.

The 66FLB unit shall be installed on power operated gasoline dispensing units that incorporate vapor recovery with operating pressures not exceeding 50 psig. Installation shall be in accordance with the manufacturer's instructions. As required by the California State Fire marshal (CSFM), the manufacturer's name or identification and model number shall be provided on

a self-adhesive label, approved by Underwriters Laboratories, and affixed to the 66FLB unit. The following words, "This device separates at 300 lb. pull force. Prior to installation, it shall be determined that such pull force will not damage the hose assembly or dispensing device. Dispensing device must be securely bolted to the dispensing island" shall also be provided on an adhesive backed label applied across the body of the unit. The flow direction shall also be cast into the body of the unit.

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 66FLB unit, 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 OPW Model 66FLB breakaway coupling/flow limiter is certified for use with the following CARB approved assist type vapor recovery systems:

Gilbarco VaporVac	Executive Order G-70-150-AB
Dresser Wayne WayneVac	Executive Order G-70-153-AA
Tokheim MaxVac	Executive Order G-70-154
OPW VaporEZ	Executive Order G-70-163
Hasstech VCP 3A	Executive Order G-70-164

The 66FLB may also be used on Hasstech VCP 2A systems, as specified in Executive Order G-70-7-AD, which use OPW HP1000 bootless nozzles.

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