STATE OF CALIFORNIA

PETE WILSON, Governor

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

March 6, 1995

Mr. Skip Orr
District Manager
Emco Wheaton Incorporated
7178 Canelo Hills Drive
Citrus Heights, California 95610

#95-3

Dear Mr. Orr:

Approval of the Emco Wheaton A4119 Coaxial Breakaway

Mr. David J. Parrish of Emco Wheaton Incorporated requested certification of the Emco Wheaton Model A4119 standard coaxial breakaway with vapor check valve on July 8, 1994. The Model A4119 breakaway is intended for use with gasoline dispensing devices having vapor recovery capabilities. It is used between two hose assemblies to safeguard against excessive pull force on the hose assembly and dispenser.

The Emco Wheaton A4119 breakaway consists of internal male and female connectors with integral check valves in each component. These parts are assembled within a female and male outer body which are slipped together and held in place with aluminum shear pins. When the coupling and connecting hose assemblies are subjected to a pull force of 350 pounds, the shear pins fracture and cause the separation of the coupling halves. Check valves prevent the escape of liquid from the hose line and vapor from the dispenser side of the hose connection. The inlet and outlet connections consist of a 1-7/8 inch 12 female thread (vapor line) and a concentric 11/16 inch bore (liquid line) with two integral O-rings. Each assembly is tested by the manufacturer for electrical continuity with resistance less than 0.5 megohms.

The A4119 breakaway is intended for installation between two standard coaxial hose assemblies where the working pressure does not exceed 75 pounds per square inch. The breakaway shall be installed in conformity with the manufacturer's instructions and all applicable codes. The listee's name and coupling model number shall be molded on the outer shell, cast on the body half, and silk screened on the scuff guard. The maximum break force of the coupling shall be cast on the body half and silk screened on the scuff guard. A tag shall be wired to each coupling warning that prior to installation, it shall be determined that the pull force required to separate the emergency breakaway feature will not damage the hose assembly or dispensing device.

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 Model A4119 breakaway, 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 Emco Wheaton Model A4119 standard coaxial breakaway with vapor check valve is certified for use with balance type Phase II vapor recovery systems.

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