Cal/EPA
California Environmental Protection Agency

Air Resources Board
P.O. Box 2815
2020 L Street
Sacramento, CA
95812-2815

Pete Wilson
Governor

James M. Strock
Secretary for Environmental Protection

December 12, 1996

Rick Bisker
Senior Staff Engineer
Wayne Division, Dresser Industries, Inc.
124 West College Ave, P.O. Box 1859
Salisbury, MD 21802

96-32

Dear Mr. Bisker:

Certification of Wayne Dresser Flow Control Valve and Revised Factory Built Vapor Tubing

On May 17, 1996, you requested California Air Resources Board (CARB) certification of a new flow control valve to replace the current fixed orifice flow restricter currently in use in Wayne Dresser dispensers. In the same letter, you also requested CARB approval of a redesign of the vapor tubing used in the dispenser.

The flow control valve is an internal device that will be installed in the product flow piping of both vapor recovery and non vapor recovery dispensers. The maximum flowrate through the regulator is 9.2 +\- 0.5 GPM at dispenser inlet pressures between 26 -50 PSI. The flow control valves were field tested and met the 10 GPM dispensing rate limitation.

The dispenser vapor piping modifications incorporate changing the currently used 3/4" ID vapor tubing running from the hose outlet to the vapor pump to 3/8" ID tubing. This change in the vapor tubing was made to improve the efficiency of the vapor assist system and improve the liquid evacuation from the vapor piping. A/L testing of a dispenser with the 3/8" ID vapor tubing was tested and no change in the A/L ratios were evident. A liquid blockage test was also performed and the vapor pump was able to clear a completely full vapor return hose after 10 gallons of fuel was dispensed.

As required by the certification Procedures for Gasoline Vapor Recovery Systems at Service Stations, the approvals of the three State agencies is a precondition to certification by the Air Resources Board. The appropriate letters of approval have been received and are listed as follows:

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-Department of Food and Agriculture,
Division of Measurement Standards
November 8, 1996.

-Department of Occupational Safety and Health
September 30, 1996.

-Department of Forestry and Fire Protection
Office of the State Fire Marshal
September 27, 1996.

I find that Wayne Dresser's flow control valves and the modified vapor return tubing in their dispensers, when installed in accordance with the manufacturer's instructions, will not adversely affect the performance of vapor recovery systems on which they are installed. Therefore, Wayne Dresser flow control valves and the modified vapor tubing in their dispensers are certified for use with CARB certified Phase II vapor recovery systems.

If you have any questions or wish to discuss this matter further, please call Paul Thalken at (916) 445-0383 or Laura McKinney at (916) 327-1525.

Sincerely,

James J. Morgester, Chief
Compliance Division

cc: Mr. Jim Johnston, Chairman,
CAPCOA Vapor Recovery Committee
Monterey Bay Unified APCD
24580 Silver Cloud Ct.
Monterey, CA 93940

Mr. Gary Hunter, Manager,
CARB Compliance Assistance Section