STATE OF CALIFORNIA

PETE WILSON, Governor

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

March 16, 1995

Mr. E.W. "Skip" Orr
District Manager
Emco Wheaton
7178 Canelo Hills Drive
Citrus Heights, CA 95610

#95-13

Dear Mr. Orr:

Approval of the Emco Wheaton A4500-002 Nozzle with the Hasstech VCP 2/2A Vapor Recovery Systems

You requested California Air Resources Board (CARB) approval of the Emco Wheaton A4500-002 with the Hasstech VCP 2/2A vapor recovery system.

The Emco Wheaton A4500-002 bootless nozzle has a total of seven vapor recovery holes on the spout (refer to the enclosed Figure). This nozzle does not have an integral vapor valve which prevents the loss of vapors from the underground storage tank and shall be operated only in conjunction with a certified remote vapor valve.

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.

The Emco Wheaton A4500-002 has successfully passed the required CARB certification testing with the Hasstech VCP-3A system. Since the VCP-3A system consists of modifications down-stream of the collection unit, both systems operate identical on the upstream of the collection unit. I find that the use of the Emco Wheaton A4500-002 nozzle, when installed in accordance with the manufacturer's instructions, will not adversely affect the performance of vapor recovery systems on which it is installed. Therefore, the Emco Wheaton A4500-002 bootless nozzle is certified to be used with the Hasstech VCP-2/2A vapor recovery systems as specified in Executive Order G-70-7-AD and is subject to the following conditions:

1) The nozzle shall meet all of the requirements of G-70-7-AD. Specifically, it shall be capable of meeting the air-to-liquid (A/L) performance specifications contained in Executive Order G-70-7-AD.

2) The nozzle shall be installed with a remote vapor valve which has been CARB certified for use Hasstech VCP-2/2A system. The remote vapor valve shall be capable of preventing the loss of vapors from the underground storage tanks and preventing the ingestion of air into the system when another nozzle is used.

3) Nozzles shall be 100 percent performance checked at the factory, including checks of all shutoff mechanisms and of the integrity of the vapor path. The maximum allowable leak rate for the nozzle shall not exceed the following:

0.038 CFH at a pressure of two inches water column, and
0.005 CFH at a vacuum of forty inches water column.

If any of the following occur, the nozzle shall be immediately removed from service.

a) The nozzle has less than 4 unblocked holes in the spout.

b) The nozzle is not capable of demonstrating compliance with the A/L performance specification as contained in Executive Order G-70-7-AD.

c) The remote vapor valve associated with the nozzle is defective. If the vapor valve fails in such a way that it does not close properly, all nozzles which are associated with the same collection unit shall also be removed from service for as long as the nozzle with the defective vapor valve remains installed. This is because operation of the collection unit will cause air to be ingested into the system at the defective vapor valve, adversely affecting burner operation and possibly affecting the vapor collection capability of the system. If the defective vapor valve has failed in such a way that the vapor path is closed, this does not apply.

d) Any visible puncture or tear on the vapor guard/vapor seal assembly (located at the base of the spout).

Should you have any questions or need further assistance, please contact Mr. Jorge Fernandez at (916) 445-0383 or Ms. Laura Sullivan McKinney at (916) 327-1525.

Sincerely,

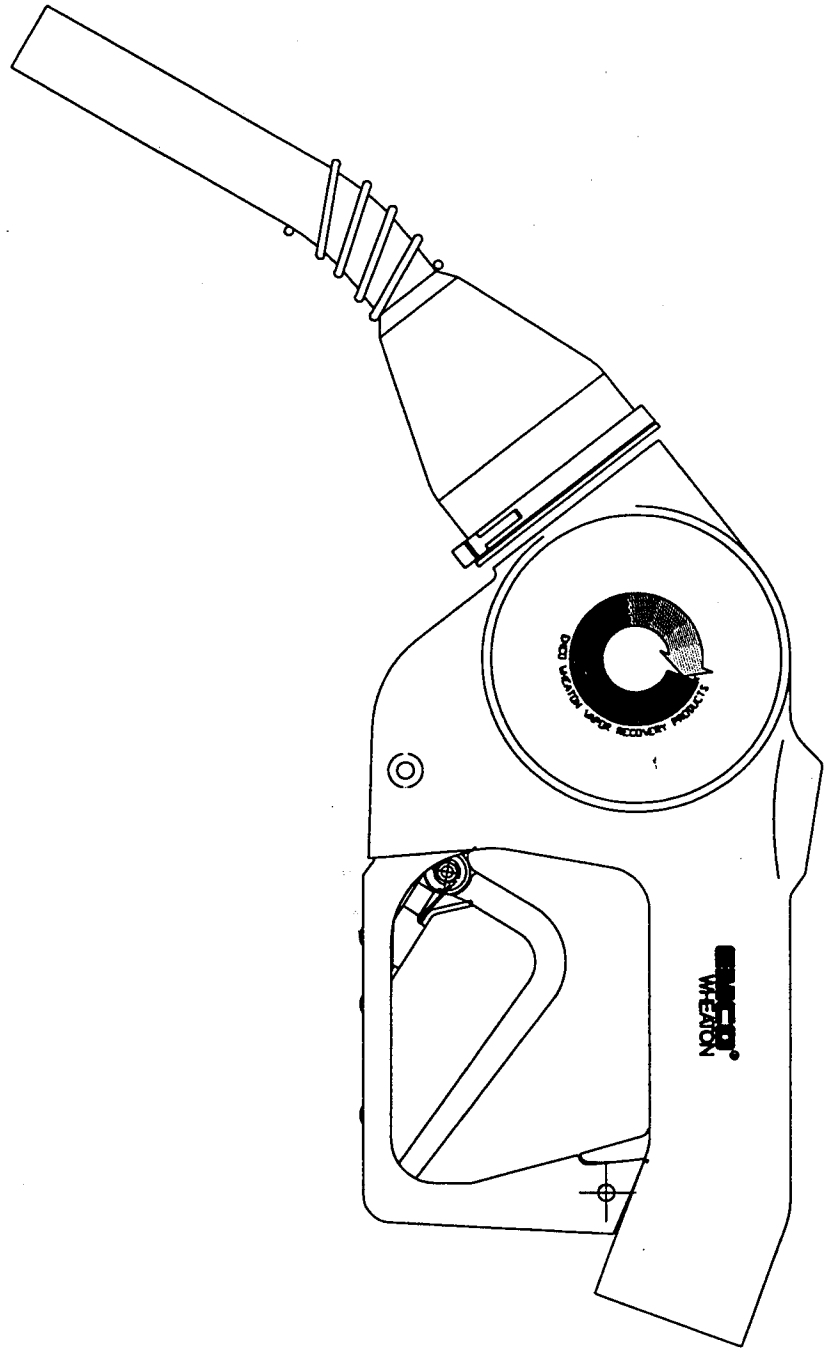
James J. Morgester, Chief
Compliance Division

Enclosure:

cc: Mr. Kenneth Kunaniec, Chairman,
CAPCOA Vapor Recovery Committee

Mr. Gary Hunter, Manager,
CARB Compliance Assistance Section

Mr. Detlev Hasselmann, President
Hasstech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