STATE OF CALIFORNIA

PETE WILSON, Governor

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

October 18, 1994

Mr. Elmer Klop
Manager of Engineering
Enterprise Brass Works, Inc.
2814 McCracken Avenue
Post Office Box 689
Muskegon, Michigan 49443

#94-24

Dear Mr. Klop:

Approval of the EBW Model 880 Coaxial Delivery Elbows

You requested California Air Resources Board (CARB) approval of the EBW Model 880 series coaxial delivery elbows. The Model 880 series elbows consist of the EBW 880-470 elbow and the EBW 880-480 elbow. Both the 470 and 480 elbows are coaxial type and are used during Phase I fuel deliveries.

The 470 elbow is identical to the 480 elbow except for the location of the vapor line outlet port. The port where the vapor recovery hose attaches to the 470 elbow is located above the port where the liquid product hose attaches to the elbow. On the 480 elbow, the vapor port is located 90 degrees away from the liquid product port. Other than the location of the vapor recovery port, the elbows are identical. The EBW Model 880 series elbows are designed to operate with coaxial type Phase I vapor recovery systems. The units are manufactured from cast aluminum and have a 4 inch diameter grooved male cam fitting for the product line inlet and a 3 inch diameter grooved male cam fitting for the vapor line outlet. The Model 880 series elbows also offer an interlock adaptor which provides a positive mechanism to require the vapor line to be hooked up before the product line connection can be made.

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 880 series elbows, when used in accordance with the manufacturer's instructions, will not adversely affect the performance of vapor recovery systems on which they are installed. Therefore, the EBW Model 880 series coaxial delivery elbows are certified for use with compatible Phase I vapor recovery equipment.

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