



Cal/EPA

California
Environmental
Protection
Agency



Air Resources Board

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Pete Wilson
Governor

Secretary for
Environmental
Protection

November 19, 1997

Mr. Craig Boche
Development Engineer
Goodyear Tire and Rubber Company
P.O. Box 579
Norfolk, NE 68702-0579

97-17

Dear Mr. Boche:

Alternate Venturi Elbow for Maxxim Plus Venturi Balance Vapor Recovery
Hose

You submitted a request for approval of an alternate venturi elbow used in Goodyear's Maxxim Premier Plus Balance vapor recovery hose on August 20, 1997. The current elbow design is made by soldering three brass parts together. The new alternate design is a single piece elbow which is die cast out of zinc. The die cast design eliminates possible solder failures and is less expensive to manufacture. The basic dimensions and performance for the two elbows are the same. The amount of force to pull the tubing off of the nipple is 20 lbs. for both elbow designs.

Based upon an engineering evaluation of the submitted samples and drawings, your request for a waiver of the 90 day hang test for CARB approval was granted. However, certification of this alternate venturi elbow was pending submittal of the approvals from the following agencies: State Fire Marshal, CAL. OSHA and Department of Food and Agriculture, Division of Measurement Standards. The approvals were received and are listed as follows:

-Department of Food and Agriculture,
Division of Measurement Standards
issued October 28, 1997

-Department of Occupational Safety and Health
issued October 15, 1997

-Department of Forestry and Fire Protection
Office of the State Fire Marshal
Certification # 005:036:001, revised October 17, 1997.

Mr. Craig Boche

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I find that the use of the alternate venturi elbow used in Goodyear's Maxxim Premier Plus Balance vapor recovery hose will not adversely affect the performance of "balance" type vapor recovery systems on which they are installed. Therefore the alternate venturi elbow used in Goodyear's Maxxim Premier Plus Balance vapor recovery hose is certified for use with "balance" type, Phase II vapor recovery systems.

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

Sincerely,

INTERNET VERSION

James 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