

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-204-2
Relating to Exemptions Under Section 27156
of the Vehicle Code

COAST FILTRATION, INC.
"FUEL ENHANCER/CATALYTIC FUEL REACTOR"

WHEREAS, Vehicle Code Section 27156 and Title 13 California Code of Regulations (hereafter "CCR") Section 2222(e), authorize the California Air Resources Board (ARB) and its Executive Officer to exempt add-on and modified parts from the prohibitions of Vehicle Code Section 27156.

WHEREAS, Coast Filtration, Inc. of 142 Viking Avenue, Brea, California 92621, has applied to the ARB for exemption from the prohibitions of Vehicle Code Section 27156 for the Fuel Enhancer/Catalytic Fuel Reactor model #GD-1, for 1991 and older model-year motorcycles, passenger cars and light-duty trucks, and model #GD-10, for 1991 and older model-year medium and heavy-duty gasoline and diesel engines.

WHEREAS, pursuant to the authority vested in the Executive Officer by Health and Safety Code Section 39515 and in the Chief, Mobile Source Division by Health and Safety Code Section 39516 and Executive Order G-45-5, the Air Resources Board finds:

1. The Fuel Enhancer/Catalytic Fuel Reactor is an add-on device attached to the fuel line in a motor vehicle.
2. The Fuel Enhancer/Catalytic Fuel Reactor is intended for use with a required motor vehicle pollution control system.
3. The Fuel Enhancer/Catalytic Fuel Reactor by being installed in the fuel line alters the original design of a motor vehicle pollution control system.
4. The Fuel Enhancer/Catalytic Fuel Reactor is a device subject to the prohibitions of Vehicle Code Section 27156 and an add-on part as defined by 13 CCR Section 1900(b)(1).
5. The Fuel Enhancer/Catalytic Fuel Reactor does not reduce the effectiveness of any required motor vehicle pollution control device.
6. The Air Resources Board, in the exercise of technical judgement, is aware of no basis on which the Fuel Enhancer/Catalytic Fuel Reactor will provide a reduction in emissions or an increase in fuel economy.

7. It has not been determined what effect use of the Fuel Enhancer/Catalytic Fuel Reactor may have on any warranty, either expressed or implied, by the manufacturer of a motor vehicle on which the device is installed.
8. The Fuel Enhancer/Catalytic Fuel Reactor is not a certified motor vehicle pollution control device pursuant to Health and Safety Code Section 43644.
9. The Air Resources Board by granting an exemption to Coast Filtration, Inc. for the Fuel Enhancer/Catalytic Fuel Reactor does not recommend or endorse in any way the Fuel Enhancer/Catalytic Fuel Reactor for emissions reduction, fuel economy, or any other purpose.

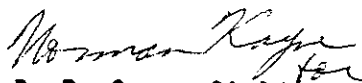
IT IS HEREBY RESOLVED that the Fuel Enhancer/Catalytic Fuel Reactor is exempt from the prohibitions of Vehicle Code Section 27156 for installation on model-year vehicles shown above subject to the following conditions:

1. This exemption shall not apply to any device, apparatus, or mechanism advertised, offered for sale or sold with, or installed on, a motor vehicle prior to or concurrent with transfer to an ultimate purchaser.
2. No changes are permitted to the device as described in the application for exemption. Any changes to the device, applicable model year, or other factors addressed in this order must be evaluated and approved by the Air Resources Board prior to marketing in California.
3. Marketing of this device using an identification other than that shown in this Executive Order or marketing of this device for an application other than those listed in the Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of this product shall not be construed as an exemption to sell, offer for sale, or advertise any component of the product as an individual device.
4. Any oral or written references to this Executive Order or its content by Coast Filtration, Inc., its principals, agents, employees, distributors, dealers, or other representatives must include the disclaimer that the Executive Order or the exemption it provides is not an endorsement or approval of any fuel economy or emissions reduction claims for the Fuel Enhancer/Catalytic Fuel Reactor and is only a finding that the device is exempt from the prohibitions of Vehicle Code Section 27156.

5. No claim of any kind, such as "Approved by the Air Resources Board" may be made with respect to the action taken herein in any advertising or other oral or written communication.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after ten day written notice of intention to revoke the order, in which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request and the order may not be revoked until a determination after hearing that grounds for revocation exist.

Executed at El Monte, California, this 17th day of July, 1991.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

State of California
AIR RESOURCES BOARD

EVALUATION OF COAST FILTRATION, INC.'S FUEL ENHANCER/CATALYTIC FUEL
REACTOR FOR EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE SECTION
27156 AND TITLE 13, CALIFORNIA CODE OF REGULATIONS, SECTION 2222

July, 1991

EVALUATION OF COAST FILTRATION, INC.'S FUEL ENHANCER/CATALYTIC FUEL
REACTOR FOR EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE SECTION
27156 AND TITLE 13, CALIFORNIA CODE OF REGULATIONS, SECTION 2222

by

Mobile Source Division

State of California
AIR RESOURCES BOARD
9528 Telstar Avenue
El Monte, CA 91731-2990

(This report has been reviewed by the staff of the California Air Resources Board and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the Air Resources Board, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.)

SUMMARY

Coast Filtration, Inc. (Coast Filtration) of 142 Viking Avenue, Brea, California 92621 has applied for an update to Executive Order No. D-204-1 to include 1991 and older model-year gasoline and diesel vehicles. The Fuel Enhancer/Catalytic Fuel Reactor device was previously granted an exemption from the prohibitions in Vehicle Code (VC) Section 27156 for 1990 and older model-year gasoline and diesel vehicles. The manufacturer also requested to add "Catalytic Fuel Reactor" as one of the device names.

Previously the Air Resources Board exempted four devices that operate on a similar principle as the Fuel Enhancer/Catalytic Fuel Reactor. Based on engineering evaluation, staff believes that the Fuel Enhancer/Catalytic Fuel Reactor will not have any adverse effect on the emission control system of the vehicle on which it is installed. Based on the above, the staff recommends that the update be granted as requested.

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EVALUATION OF COAST FILTRATION, INC.'S FUEL ENHANCER/CATALYTIC FUEL REACTOR FOR EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE SECTION 27156 AND TITLE 13, CALIFORNIA CODE OF REGULATIONS, SECTION 2222

I. INTRODUCTION

Coast Filtration, Inc. (Coast Filtration) of 142 Viking Avenue, Brea, California 92621 has applied for an update of Executive Order (E.O.) No.D-204-1 for Fuel Enhancer/Catalytic Fuel Reactor Model Nos. GD-1 and GD-10 to include 1991 and older model-year vehicles. The Fuel Enhancer/Catalytic Fuel Reactor was previously exempted from the prohibitions in Vehicle Code (VC) Section 27156 for 1990 and older model-year vehicles. Model GD-1 is for installation on gasoline or diesel powered motorcycles, passenger cars, and light-duty trucks. Model GD-10 is for installation on medium and heavy-duty gasoline and diesel vehicles. The manufacturer also requested marketing of the device by Joseph Industries, Inc. of 26691 Richmond Road, Bedford Heights, Ohio under the name of "Catalytic Fuel Reactor".

II. CONCLUSION

Previously, the Air Resources Board (ARB) exempted the Fuel Enhancer from the prohibitions in VC Section 27156 based on determination that the device will not reduce the effectiveness of the pollution control system of the vehicle on which it is installed. Since there has been no design changes made to the Fuel Enhancer/Catalytic Fuel Reactor following the issuance of E.O. No. D-204-1 covering 1990 and older model-year vehicles, staff concludes that the device will not have any adverse effect on 1991 model-year vehicles.

III. RECOMMENDATION

The staff recommends that the exemption update be granted as requested and that Executive Order No. D-204-2 be issued, permitting the advertisement, sale and installation of the Fuel Enhancer/Catalytic Fuel Reactor on 1991 and older model-year vehicles as shown above.

IV. DEVICE DESCRIPTION

The Coast Filtration's Fuel Enhancer/Catalytic Fuel Reactor is a cylindrical shaped device with a core of metal alloy. The metal alloy is composed of nickel, copper, zinc, and other semi-precious metals. The device is tapered at the ends in order to accept the vehicle's fuel line. It has an overall outside length of 4 inches, a core length of 2 inches and core diameter of 0.5 inch. The device is installed by cutting the fuel line and inserting the device such that the fuel flows through it prior to entering the intake manifold.

The applicant claims that the Fuel Enhancer/Catalytic Fuel Reactor uses the principle of dissimilar metals to energize the fuel molecules and cause the fuel to achieve complete combustion. Consequently, the vehicle will have better gas mileage and lower level of pollution. However, the staff cannot find any sound engineering principle to support the applicant's claims.

V. DISCUSSION

Previous tests conducted on devices that operate on similar principle as the Fuel Enhancer/Catalytic Fuel Reactor did not show any adverse impact on emissions nor any significant emission benefits from the use of the device. Based on past test results and an engineering evaluation of the device, staff determined that the Fuel Enhancer/Catalytic Fuel Reactor will not reduce the effectiveness of the pollution control system of the vehicle on which it is installed. No testing was required for the purpose of exempting the device from the prohibitions in VC Section 27156.