

State of California
Air Resources Board

EXECUTIVE ORDER D-522

Relating to Exemptions Under Section 27156
Of the Vehicle Code

QE-Research Corporation
IQE-2001, IQE-2001(D)

WHEREAS, Vehicle Code Sections 27156 and 38391, 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 aftermarket devices from the prohibitions of Vehicle Code Section 27156.

WHEREAS, QE-Research Corporation of 662 Hamilton Avenue, Palo Alto, California 94301, has applied to the ARB for exemption from the prohibitions in Vehicle Code Sections 27156 and 38391 for its IQE-2001 and IQE-2001(D).

WHEREAS, pursuant to the authority vested in the Executive Officer by Health and Safety Code Section 39515 and in the Chief, Mobile Source Operations Division by Health and Safety Code Section 39516 and Executive Order G-45-9, the ARB finds that:

1. The IQE-2001 or IQE-2001(D) is an add-on device installed around the fuel line, in the fuel filter and in the air intake system of a motor vehicle.
2. The IQE-2001 or IQE-2001(D) is intended for use with a required motor vehicle pollution control system.
3. The IQE-2001 or IQE-2001(D) by being installed around the fuel line, in the fuel filter or in the air intake system alters the original design of a motor vehicle pollution control system.
4. The IQE-2001 or IQE-2001(D) is a device subject to the prohibitions of Vehicle Code Section 27156 and an add-on part as defined by Title 13, CCR Section 1900 (b)(1).
5. The IQE-2001 or IQE-2001(D) does not reduce the effectiveness of any required motor vehicle pollution control system.
6. Based on test data submitted by the manufacturer, the IQE-2001 or IQE-2001(D) will have no adverse effect on vehicular emissions. However, the test data do not provided adequate basis to support any claims of emission reduction or fuel economy benefit from use of the device.

7. It has not been determined what effect the use of the IQE-2001 or IQE-2001(D) may have on any warranty; either expressed or implied, by the manufacturer of a motor vehicle on which the device is installed.
8. The IQE-2001 or IQE-2001(D) is not a certified motor vehicle pollution control device pursuant to Health and Safety Code Section 43644.
9. The ARB by granting an exemption to QE-Research Corporation for the IQE-2001 or IQE-2001(D) does not recommend or endorse in any way the IQE-2001 or IQE-2001(D) for emissions reduction, fuel economy, or any other purpose.

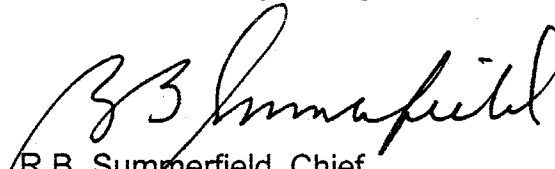
IT IS HEREBY RESOLVED that the IQE-2001 and IQE-2001(D) are exempt from the prohibitions of Vehicle Code Section 27156 for installation on 2001 and older model-year vehicles (IQE-2001 for gasoline vehicles and IQE-2001(D) for diesel vehicles) subject to the following conditions:

1. No changes are permitted to the IQE-2001 or IQE-2001(D) device as described in the application for exemption. Any changes to the IQE-2001 or IQE-2001(D), applicable model years, or other factors addressed in this order must be evaluated and approved by the ARB prior to marketing in California.
2. Marketing of the IQE-2001 or IQE-2001(D) without a permanent label showing the Executive Order number or marketing of the IQE-2001 or IQE-2001(D) for an application other than that stated in this Executive Order shall be prohibited unless prior approval is obtained from the ARB. Exemption of this product shall not be construed as an exemption to sell, offer for sale, or advertise any components of the IQE-2001 or IQE-2001(D) as an individual device.
3. Any oral or written references to this Executive Order or its content by QE-Research Corporation, 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 emission reduction claims for the IQE-2001 or IQE-2001(D) and is only a finding that the IQE-2001 or IQE-2001(D) is exempt from the prohibitions of Vehicle Code Section 27156.
4. This exemption shall not apply to any device, apparatus, or mechanism advertised, offered for sale, sold with, or installed on a motor vehicle prior to or concurrent with transfer to an ultimate purchaser.
5. No claim of any kind, such as "Approved by the Air Resources Board" may be made with respect to this Executive Order in any advertising or other oral or written communication.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OF THE IQE-2001 and IQE-2001(D).

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 it, during 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 recommendation is made, after the hearing, that grounds for revocation exist.

Executed at El Monte, California, this 6th day of August 2001.


R.B. Summerfield, Chief
Mobile Source Operations Division

EVALUATION SUMMARY

Manufacturer Name: QE-Research Corporation

Name of Device: IQE-2001, IQE-2001(D)

Background:

QE-Research Corporation of 662 Hamilton Avenue, Palo Alto, California 94301, has applied to the ARB for exemption from the prohibitions in Vehicle Code Sections (VC) 27156 and 38391 for its IQE-2001 designed for 2001 and older model year gasoline vehicles and IQE-2001(D) for 2001 and older model year diesel vehicles.

Recommendation:

Grant exemption to QE-Research Corporation as requested and issue Executive Order D-524.

Device Description:

QE-Research Corporation's IQE-2001 and IQE-2001(D) are add-on devices made up of magnets and other patented materials designed to produce very weak electro-magnetic radiation. The IQE-2001 consists of two components intended for installation on a gasoline vehicle; one for the fuel line and the other for the air intake hose. The IQE-2001(D) consists of three components intended for installation on a diesel vehicle; one for the fuel line, one for the air intake duct and the other for the side fuel filter. The manufacturer claims that use of the IQE-2001 and IQE-2001(D) devices cause the hydrocarbon chains to break easily, resulting in an efficient burn and reduced emissions.

Discussion/Basis for the Recommendation:

The manufacturer claims the IQE-2001 and IQE-2001(D) devices induce quantum energy radiation which activates the hydrocarbons and oxygen molecules resulting in improved combustion. The manufacturer has not provided a clear scientific explanation as to how this phenomenon could occur. However, although unsolicited, the manufacturer submitted emission test results conducted at the Clean Air Vehicle Technology Center in Hayward, California. Testing was conducted using Cold-start CVS-75 Federal Test Procedures (FTP) on two gasoline vehicles: a 2001 model year 4.3L GMC Jimmy and a 2001 3.8L Pontiac Grandprix. Also, a 1999 model year International 4700 truck with a DT444 engine was testing using the UDDS heavy-duty chassis cycle. The test results are as follows:

2001 GMC Jimmy (average of three tests)

	NMHC	CO	NOx
Baseline	.024	0.720	.060
With Device	.030	1.012	.044

2001 Pontiac Grandprix (average of three tests)

	NMHC	CO	NOx
Baseline	.052	0.640	.050
With Device	.038	0.607	.045

1999 International w/ DT466 engine

	THC	CO	NOx	PM
Baseline (ave. of 3 tests)	.397	1.769	8.709	.162
With Device (0-mile)	.40	1.726	8.73	.165
With Device (100-mile)	.365	1.676	8.38	.159
With Device (200-mile)	.332	1.61	8.55	.157
With Device (400-mile)	.313	1.573	8.158	.165

Exhaust emission test results show that the device when installed on the vehicles did not cause emissions to significantly increase over the baseline levels. QE-Research Corporation met the requirements for a VC 27156 exemption.