State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-535-2

Relating to Exemptions under
Section 27156 of the Vehicle Code

Cleaire Advanced Emission Controls
Longview System

Pursuant to the authority vested in the Air Resources Board (ARB) by Section 27156 of the Vehicle Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That installation of the Longview System, manufactured by Cleaire Advanced Emission Controls of 14775 Wicks Boulevard, San Leandro, California 94577, has been found not to reduce the effectiveness of the applicable vehicle pollution control system, and therefore, the Longview System is exempt from the prohibitions in Section 27156 of the Vehicle Code for installation on heavy-duty on-road vehicles equipped with the following diesel engines:

Model-Year	Make	Model
1994-1997	Cummins	M11
1994-1997	International (formerly Navistar)	DT466

This exemption is only valid provided the engines meet the following operating conditions: (1) the engine exhaust temperature is greater than 260 degrees Celsius for at least 25 percent of the typical duty cycle and (2) the engine is operated using standard California diesel with a maximum sulfur content of 500 parts per million by weight.

This exemption does not apply to any engines operated using ultra-low sulfur diesel with a maximum sulfur content of 15 parts per million by weight.

The Longview System consists of a lean NOx catalyst, secondary fuel injection system, electronic controller, control sensors, and a catalyzed passive diesel particulate filter. The fuel injection system includes a fuel pump, injector, injector block, and a pressure regulator. The sensors include a manifold absolute pressure sensor, engine speed sensor, two exhaust temperature sensors, and an engine backpressure sensor. The major components of the system are identified in Attachment A.

This exemption is based on emission tests conducted by Cleaire Advanced Emission Controls with the Longview System. Test data showed that the Longview System has no adverse impact on exhaust emissions.

This Executive Order is valid provided that installation instructions for the Longview System do not recommend tuning the vehicle to specifications different from those of the vehicle manufacturer.

Changes made to the design or operating conditions of the Longview System, as exempt by the ARB, which adversely affect the performance of the vehicle's pollution control system, shall invalidate this Executive Order.

Marketing of the Longview System using identification other than that shown in this Executive Order or for an application other than that listed in this Executive Order shall be prohibited unless prior approval is obtained from the ARB.

This Executive Order shall not apply to any Longview System advertised, offered for sale, sold with, or installed on a motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

This Executive Order does not constitute any opinion as to the effect the use of the Longview System may have on any warranty either expressed or implied by the vehicle manufacturer.

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.

In addition to the foregoing, the ARB reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of California Code of Regulations, Title 13, Section 2222, et seq.

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 OR ANY ALLEGED BENEFITS OF CLEAIRE ADVANCED EMISSION CONTROL'S LONGVIEW SYSTEM.

Violation of any of the above conditions shall be grounds for revocation of this Executive Order. The Executive Order may be revoked only after a ten-day written notice of intention to revoke the Executive Order, in which period the holder of the Executive 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 Executive Order may not be revoked until a determination is made after a hearing that grounds for revocation exist.

Executed at El Monte, California, this 30TH day of October 2002.

Allen Lyons, Chief
Mobile Source Operations Division

Attachment A

Cleaire Advanced Emission Controls – Longview System P/N 8011		
Cleaire PN	QTY	Description
7902	1	Controller and Sensor Kit
7002	1	Monitor Logger Controller
7201	1	Pressure Transducer
7203	1	MAP Sensor
7404	2	Thermocouple – braided sheath, solid wire
7305	1	Magnetic Pickup (tachometer)
6901	1	Fuel System Kit
6150	1	Diesel Fuel Pump/Filter
6903	1	Injector Assembly (inj., adp., o-ring)
6411	1	4mnpt x 4mnpt Check Valve (pressure regulator)
5502	2	Lean NOx Catalyst (10.5" x 6")
5510	1	Diesel Particulate Filter (10.5" x 12")