



# Air Resources Board



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TO: ALL INTERESTED PARTIES

DATE: October 10, 2008

SUBJECT: FAILURE OF COMPONENT(S) OF A VERIFIED DIESEL EMISSION CONTROL STRATEGY PAST THE WARRANTY PERIOD, EFFECTS ON THE REPLACEMENT, AND REASSIGNING BEST AVAILABLE CONTROL TECHNOLOGY

The purpose of this advisory is to define a failure of a verified diesel emissions control strategy (DECS) after the warranty period, including replacement of component(s) and/or reassigning replacement DECS in accordance with applicable regulations. California Code of Regulations, title 13, section 2707, of the Verification Procedure for the In-Use Strategies to Control Emissions from Diesel Engines outlines the warranty requirements that the person or company installing a DECS must fulfill for the product and its installation. A copy of the warranty is to be provided to the end-user identifying the warranty period. The following addresses what steps are required for replacement of components not directly related to the filtration of the engine exhaust.

If a component of a DECS fails, it is essential to evaluate the component failure with its affect on the overall performance of the DECS. If the installer and the device owner cannot certify that the device is meeting its original emission reductions as verified, the entire system must be replaced with a DECS meeting best available control technology (BACT) as defined in the applicable regulation for the equipment. Failure of a core component such as a device substrate (diesel oxidation catalyst, diesel particulate filter or flow-thorough-filter, nitrogen oxides (NOx) catalyst, selective catalytic reduction, etc.), fuel additive dosing system, and/or electronic control element/module requires complete system replacement with BACT. Typically BACT determination is based on engine age, vehicle duty cycle, engine family, and other factors.

This is only applicable for Level 3 DECS and would not apply to Level 1 and Level 2 devices, nor Level 3 systems with verified NOx reductions as extensive testing is required to determine efficiency. The installer must prove that the device is working per verification requirements with the component change. The owner will need to work closely with the DECS distributor and / or the installer to ensure that highest level BACT is installed.

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.*

California Environmental Protection Agency

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Should you have any questions about this advisory, please contact Ms. Kathleen Mead, Manager, at (916) 324-9550 or email at [kmead@arb.ca.gov](mailto:kmead@arb.ca.gov).

Sincerely,

/s/

Robert H. Cross, Chief  
Mobile Source Control Division

cc: Kathleen Mead, Manager  
Retrofit Implementation Section