



# Air Resources Board



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August 3, 2010

Mail-Out #MSC 10-31

TO: All Interested Parties

SUBJECT: REQUIREMENTS FOR A DIESEL EMISSION CONTROL STRATEGY (DECS) TO BE CONSIDERED VERIFIED BY THE AIR RESOURCES BOARD (ARB)

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The *Verification Procedure, Warranty and In-Use Compliance Requirements for In-Use Strategies to Control Emissions from Diesel Engines* ("Procedure," Title 13, California Code of Regulations, Sections 2700-2710) was adopted by ARB on May 16, 2002. ARB uses the Procedure to ensure that retrofit technologies designed to control harmful exhaust emissions from diesel engines, referred to as DECS, achieve real emission reductions and are durable.

A manufacturer that wishes to verify a DECS must satisfy the requirements described in the Procedure. To begin with, the manufacturer must be able to demonstrate that the DECS relies on sound principles of science and engineering to achieve emission reductions. The manufacturer must contract with a qualified test facility to conduct emissions testing of the DECS when it is both in new and aged condition. The aged DECS must have undergone an appropriate durability demonstration, typically on a real-world application, that proves out the product's ability to withstand prolonged commercial use. ARB verification also requires that the manufacturer conduct in-use compliance testing of units that are retrieved from the field to ensure production units perform the same as test units. Finally, all verified DECS must be sold with a product warranty and installation warranty that meet the requirements specified in the Procedure.

Once a DECS is verified, ARB issues an official verification document, either an Executive Order or a conditional verification letter, which details the terms and conditions that must be satisfied for the verification to be valid. These requirements include a description of which engines the DECS may be installed on, any specific requirements the DECS has to function properly, and the requirement to honor the ARB warranty. A DECS is not considered verified by ARB, regardless of where it is sold, if it

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does not meet all the terms and conditions of the official verification document and its attachments. This includes warranty requirements. If a DECS is offered for sale as verified by ARB, it must adhere to all warranty provisions in Section 2707 of the Procedure. The minimum warranty periods from Table 5 of Section 2707 are reprinted below for reference.

**Table 5. Minimum Warranty Periods  
 (from Section 2707\*)**

| Engine Type   | Engine Size   | Minimum Warranty Period  |
|---|---|--------------------------|
| On-Road   | Light heavy-duty, 70 to 170 horsepower (hp), Gross Vehicle Weight Rating (GVWR) less than 19,500 lbs.   | 5 years or 60,000 miles  |
|   | Medium heavy-duty, 170 to 250 hp, GVWR from 19,500 lbs. to 33,000 lbs.  | 5 years or 100,000 miles |
|   | Heavy heavy-duty, exceeds 250 hp, GVWR exceeds 33,000 lbs.  | 5 years or 150,000 miles |
|   | Heavy heavy-duty, exceeds 250 hp, GVWR exceeds 33,000 lbs., and the truck is:<br>1. Typically driven over 100,000 miles per year and<br>2. Has less than 300,000 miles on the odometer at the time of installation. | 2 years, unlimited miles |
| Off-Road (includes portable engines) and Stationary | Under 25 hp and for constant speed engines rated under 50 hp with rated speeds greater than or equal to 3,000 rpm   | 3 years or 1,600 hours   |
|   | At or above 25 hp and under 50 hp   | 4 years or 2,600 hours   |
|   | At or above 50 hp   | 5 years or 4,200 hours   |

\* Excerpted from the current version of the Procedure (effective date: February 19, 2009).

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Should you have any questions regarding this advisory, please contact  
Ms. Shawn Daley, Manager, at (626) 575-6972, or by email at [sdaley@arb.ca.gov](mailto:sdaley@arb.ca.gov).

Sincerely,

*/s/*

Robert H. Cross, Chief  
Mobile Source Control Division

cc: Ms. Shawn Daley, Manager  
Retrofit Assessment Section