

## **APPENDIX B**

### **PROPOSED AMENDMENTS TO THE CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES FOR 2004 AND SUBSEQUENT MODEL HEAVY-DUTY DIESEL-CYCLE ENGINES AND VEHICLES**

# PROPOSED

State of California  
AIR RESOURCES BOARD

## CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES FOR 2004 AND SUBSEQUENT MODEL HEAVY-DUTY DIESEL ENGINES AND VEHICLES

Adopted: December 12, 2002  
Amended: July 24, 2003  
Amended: September 1, 2006  
Amended: July 26, 2007  
Amended: [INSERT DATE OF AMENDMENT]  
Amended: (Insert date of finalized amendment)

NOTE: Proposed amendments in this document are printed in a style to indicate changes from existing provisions (July 26, 2007 amendments.) Amendments to this document as adopted on March 22, 2007 as part of the "Rulemaking to Consider Amendments to California's Emission Warranty Information Reporting and Recall Regulations and Emission Test Procedures," are indicated by double underline to indicate additions and ~~double strikeout~~ to indicate deletions compared to the test procedures as amended on July 26, 2007. All existing language is indicated by plain type. All additions to the existing language are indicated by underline. All deletions to the existing language are indicated by ~~strikeout~~. Only those portions of the existing language containing the proposed modifications are included. All other portions remain unchanged and are indicated by the symbol "\* \* \* \* \*" for reference. A complete set of the test procedures, as amended on July 26, 2007, is available at [http://www.arb.ca.gov/msprog/onroadhd/HDDTPs\\_Clean\\_rev\\_9-12-07.pdf](http://www.arb.ca.gov/msprog/onroadhd/HDDTPs_Clean_rev_9-12-07.pdf).

**CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES  
FOR 2004 AND SUBSEQUENT MODEL  
HEAVY-DUTY DIESEL ENGINES AND VEHICLES**

The following provisions of Subparts A, I, -N, S, and T, Part 86, and of Subparts A through K, Part 1065, Title 40, Code of Federal Regulations, as adopted or amended by the U.S. Environmental Protection Agency on the date set forth next to the applicable section listed below, and only to the extent they pertain to the testing and compliance of exhaust emissions from heavy-duty diesel engines and vehicles, are adopted and incorporated herein by this reference as the "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles," except as altered or replaced by the provisions set forth below.

**PART 86 – CONTROL OF EMISSIONS FROM NEW AND IN-USE HIGHWAY  
VEHICLES AND ENGINES**

**I. GENERAL PROVISIONS FOR CERTIFICATION AND IN-USE VERIFICATION  
OF EMISSIONS.**

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**Subpart A - General Provisions for Emission Regulations for 1977 and Later  
Model Year New Light-Duty Vehicles, Light-Duty Trucks, and Heavy-Duty Engines,  
and for 1985 and Later Model Year New Gasoline-Fueled, Natural Gas-Fueled,  
Liquefied Petroleum Gas-Fueled and Methanol-Fueled Heavy-Duty Vehicles.**

\* \* \* \* \*

1. Definitions. [§86.xxx-2]

**A. Federal Provisions.**

1. **§86.004-2** January 18, 2001. [All federal definitions apply, except as otherwise noted below. Definitions specific to other requirements are contained in separate documents.]

**B. California Provisions.**

**"Administrator"** means the Executive Officer of the Air Resources Board.

**"Certificate of Conformity"** means "Executive Order" certifying vehicles for sale in California.

**"Certification"** means certification as defined in Section 39018 of the Health and Safety Code.

“EPA” shall also mean Air Resources Board or Executive Officer of the Air Resources Board.

“EPA Enforcement Officer” means the Executive Officer or his delegate.

“Measurement allowance” means accuracy margin.

“Medium-duty engine” means a heavy-duty engine that is used to propel a medium-duty vehicle.

“Medium-duty vehicle” means 2004 through 2006 model year heavy-duty low-emission vehicle, ultra-low-emission vehicle, super-ultra-low-emission vehicle or zero-emission vehicle certified to the standards in title 13, CCR, section 1960.1(h)(2) having a manufacturer's gross vehicle weight rating of 14,000 pounds or less; and any 2004 and subsequent model heavy-duty low-emission, ultra-low-emission, super-ultra-low-emission or zero-emission vehicle certified to the standards in title 13, CCR section 1956.8(h), having a manufacturer's gross vehicle weight rating between 8,501 and 14,000 pounds.

“NTE standard” means NTE emission limit.

“Warranty period” [For guidance see title 13, CCR, §2036].

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## II. TEST PROCEDURES

### Subpart I - Emission Regulations for New Diesel-Fueled Heavy-Duty Engines; Smoke Exhaust Test Procedure

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### Subpart N - Emission Regulations for New Otto-Cycle and Diesel Heavy-Duty Engines; Gaseous and Particulate Exhaust Test Procedures

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### Subpart S – General Compliance Provisions for Control of Air Pollution From New and In-Use Light-Duty Vehicles, Light-Duty Trucks, and Complete Otto-Cycle Heavy-Duty Vehicles.

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### Subpart T - Manufacturer-Run In-Use Testing Program for Heavy-Duty Diesel Engines

86.1901 What testing requirements apply to my engines that have gone into service?

June 14, 2005. [No change.]

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86.1912 How do I determine whether an engine meets the vehicle-pass criteria?  
June 14, 2005. [No change, except as follows.]

\* \* \* \* \*

(a)(3) Delete and replace with:

Measurement allowances for portable in-use equipment when testing is performed under the special provisions of §86.1930, depending on the pollutant, are as follows:

<u>Pollutant</u>	<u>Measurement Allowances in grams/brake horsepower-hour for MY 2007-2009</u>	<u>Measurement Allowances in grams/brake horsepower-hour for MY 2010 and beyond</u>
<u>NMHC</u>	<u>0.02</u>	<u>0.01</u>
<u>CO</u>	<u>0.50</u>	<u>0.25</u>
<u>NOx</u>	<u>0.45</u>	<u>0.15</u>
<u>PM</u>	<u>0.10</u>	<u>0.10</u>

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Appendix I to Part 86 - Urban Dynamometer Schedules.

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Appendix I to Subpart T – Sample Graphical Summary of NTE Emission Results

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**PART 1065 – ENGINE-TESTING PROCEDURES.**

**Subpart A – Applicability and General Provisions**

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**Subpart B – Equipment Specifications**

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**Subpart C – Measurement Instruments**

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**Subpart D – Calibrations and Verifications**

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**Subpart E – Engine Selection, Preparation, and Maintenance**

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**Subpart F – Performing an Emission Test in the Laboratory**

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**Subpart G – Calculations and Data Requirements**

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**Subpart H – Engine Fluids, Test Fuels, Analytical Gases and Other Calibration Standards**

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**Subpart I – Testing with Oxygenated Fuels**

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**Subpart J – Field Testing and Portable Emission Measurement Systems**

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## Subpart K – Definitions and Other Reference Information

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