

## APPENDIX A

### PROPOSED REGULATION ORDER

Amend the following section of Title 13, California Code of Regulations, to read as set forth in the following pages:

§1956.1	Exhaust Emission Standards and Test Procedures – 1985 and Subsequent Model Heavy-Duty Urban Bus Engines and Vehicles
§1956.8	Exhaust Emission Standards and Test Procedures for 1985 and Subsequent Model Year Heavy-Duty Engines and Vehicles

Note: This Document is printed in a style to indicate changes from the existing provisions. 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~~.

Amend Title 13, California Code of Regulations, section 1956.1, to read:

**§ 1956.1. Exhaust Emissions Standards and Test Procedures - 1985 and Subsequent Model Heavy-Duty Urban Bus Engines and Vehicles.**

(a)(1) through (a)(11) [No change.]

(a)(12) 2007 and subsequent – 0.20 g/bhp-hr NO<sub>x</sub>, 0.01 g/bhp-hr PM, 0.05 g/bhp-hr NMHC, 5.0 g/bhp-hr CO, and 0.01 g/bhp-hr formaldehyde.

(b) [No change.]

(c) The test procedures for determining compliance with standards applicable to 1985 and subsequent model heavy-duty diesel cycle urban bus engines and vehicles and the requirements for participation in the averaging, banking and trading programs, are set forth in the “California Exhaust Emission Standards and Test Procedures for 1985 through 2003 Model Heavy-Duty Diesel Engines and Vehicles,” adopted April 8, 1985, as last amended December 12, 2002, the “California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles,” adopted December 12, 2002, as last amended [insert amendment date once regulations are finalized], and the “California Interim Certification Procedures for 2004 and Subsequent Model Hybrid-Electric Vehicles, in the Urban Bus and Heavy-Duty Vehicle Classes,” adopted October 24, 2002, which are incorporated by reference herein.

Note: Authority cited: Sections 39600, 39601, 43013, 43018, 43100, 43101, 43104 and 43806, Health and Safety Code; and Section 28114, Vehicle Code. Reference: Sections 39002, 39003, 39017, 39033, 39500, 39650, 39657, 39667, 39701, 40000, 43000, 43000.5, 43009, 43013, 43018, 43102 and 43806, Health and Safety Code; and Section 28114, Vehicle Code.

Amend Title 13, California Code of Regulations, section 1956.8, to read:

**§ 1956.8. Exhaust Emissions Standards and Test Procedures - 1985 and Subsequent Model Heavy-Duty Engines and Vehicles.**

(a)(1) [No change.]

(a)(2)(A) The exhaust emissions from new 2004 and subsequent model heavy-duty diesel engines, heavy-duty natural gas-fueled and liquefied-petroleum-gas-fueled engines derived from diesel-cycle engines, and heavy-duty methanol-fueled diesel engines, and the optional, reduced-emission standards for 2002 and subsequent model engines produced beginning October 1, 2002, except in all cases engines used in medium-duty vehicles, shall not exceed:

**Exhaust Emission Standards for 2004 and Subsequent Model Heavy-Duty Engines, and Optional, Reduced Emission Standards for 2002 and Subsequent Model Heavy-Duty Engines Produced Beginning October 1, 2002, Other than Urban Bus Engines (grams per brake horsepower-hour [g/bhp-hr])**

Model Year	Oxides of Nitrogen Plus Non-methane Hydrocarbons	Optional Oxides of Nitrogen Plus Non-methane Hydrocarbons	Oxides of Nitrogen	Non-methane Hydrocarbons	Carbon Monoxide	Particulates
2004-2006 <sup>H</sup>	2.4 <sup>A,C,E,J</sup>	2.5 <sup>B,C,E,J</sup>	n/a	n/a	15.5	0.10 <sup>C</sup>
October 1, 2002 – 2006	n/a	1.8 to 0.3 <sup>A,D,F</sup>	n/a	n/a	15.5	0.03 to 0.01 <sup>G</sup>
2007 and subsequent	n/a	n/a	0.20 <sup>I</sup>	0.14	15.5	0.01 <sup>K</sup>

(a)(2)(A) footnotes <sup>A</sup> through <sup>K</sup> [No change.]

(a)(2)(B) through (a)(5) [No change.]

(b) The test procedures for determining compliance with standards applicable to 1985 and subsequent model heavy-duty diesel engines and vehicles and the requirements for participating in the averaging, banking and trading programs, are set forth in the “California Exhaust Emission Standards and Test Procedures for 1985 through 2003 Model Heavy-Duty Diesel Engines and Vehicles, “ adopted April 8, 1985, as last amended December 12, 2002, the “California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles, ” adopted December 12, 2002, as last amended [insert amendment date once regulations are finalized], and the “California Interim Certification Procedures for 2004 and Subsequent Model Hybrid-Electric Vehicles, in the Urban Bus and Heavy-Duty Vehicle Classes, ”, adopted October 24, 2002, which are incorporated by reference herein.

(c) [No change]

(d) The test procedures for determining compliance with standards applicable to 1987 and subsequent model heavy-duty Otto-cycle engines and vehicles are set forth in the "California Exhaust Emission Standards and Test Procedures for 1987 through 2003 Model Heavy-Duty Otto-Cycle Engines and Vehicles," adopted April 25, 1986, as last amended December 27, 2000, the "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Otto-Cycle Engines," adopted December 27, 2000, as last amended ~~December 12, 2002~~ insert amendment date once regulations are finalized, the "California Non-Methane Organic Gas Test Procedures," adopted July 12, 1991, as last amended July 30, 2002, and the "California Interim Certification Procedures for 2004 and Subsequent Model Hybrid-Electric Vehicles, in the Urban Bus and Heavy-Duty Vehicle Classes," adopted October 24, 2002, which are incorporated by reference herein.

(e) through (g) [No change]

(h) The exhaust emissions from new:

(1) 1992 through 2004 model-year Otto-cycle engines used in incomplete medium-duty low-emission vehicles, ultra-low-emission vehicles, and super-ultra-low-emission vehicles, and

(2) 1992 and subsequent model diesel engines used in medium-duty low-emission vehicles, ultra-low-emission vehicles and super-ultra-low-emission vehicles shall not exceed:

**Exhaust Emission Standards for Engines Used in Incomplete  
Otto-Cycle Medium-Duty Low-Emission Vehicles, Ultra-Low-Emission Vehicles,  
and Super Ultra-Low-Emission Vehicles, and for Diesel Engines Used in  
Medium-Duty Low-Emission Vehicles, Ultra-Low-Emission Vehicles, and  
Super Ultra-Low-Emission Vehicles<sup>A,F</sup>**  
(grams per brake horsepower-hour)

Model Year	Vehicle Emissions Category <sup>B</sup>	Carbon Monoxide	NMHC + NOx <sup>C</sup>	Non-Methane Hydrocarbons	Oxides of Nitrogen	Formaldehyde	Particulates <sup>D</sup>
1992 <sup>E</sup> - 2001	LEV	14.4	3.5 <sup>K</sup>	n/a	n/a	0.050	0.10 <sup>K</sup>
2002-2003 <sup>E</sup>	LEV	14.4	3.0 <sup>K</sup>	n/a	n/a	0.050	0.10 <sup>K</sup>
1992-2003 <sup>E,H</sup>	ULEV	14.4	2.5 <sup>K</sup>	n/a	n/a	0.050	0.10 <sup>K</sup>
2004 and subsequent <sup>L</sup>	ULEV - Opt A	14.4	2.5 <sup>I,J,K</sup>	n/a	n/a	0.050	0.10 <sup>J,K</sup>
2004 and subsequent <sup>L</sup>	ULEV - Opt. B	14.4	2.4 <sup>I,J,K</sup>	n/a	n/a	0.050	0.10 <sup>J,K</sup>
2007 and subsequent <sup>D</sup>	ULEV	15.5	n/a	0.14	0.2 <u>0</u>	0.050	0.01
1992 and subsequent <sup>L</sup>	SULEV	7.2	2.0 <sup>K</sup>	n/a	n/a	0.025	0.05 <sup>K</sup>
2007 and subsequent <sup>D</sup>	SULEV	7.7	n/a	0.07	0.1 <u>0</u>	0.025	0.005

(h)(1) and (h)(2) footnotes <sup>A</sup> through <sup>L</sup> [No change.]

NOTE: Authority cited: Sections 39600, 39601, 43013, 43018, 43100, 43101, 43104, 43105 and 43806, Health and Safety Code; and Section 28114, Vehicle Code.  
Reference: Sections 39002, 39003, 39500, 43000, 43013, 43018, 43100, 43101, 43102, 43104, 43106, 43202, 43204, 43206, 43210, 43211, 43212, 43213, and 43806, Health and Safety Code; and Section 28114, Vehicle Code.