Attachment 1 For use by Secretary of State only STATE OF CALIFORNIA-OFFICE OF ADMINISTRATIVE LAW instruct. NOTICE PUBLICATION/REG頃 reverse STD, 400 (REV. 01-09) EMERGENCY NUMBER REGULATORY ACTION NUMBER OALSFILE NOTICE FILE NUMBER .012-1206-01S 7-2012-0831- O NUMBERS 2012 DEC 31 PM 3: 08 For use by Office of Administrative Law (OAL) only 9917 DEC -6 FR 40 44 RECEIVED FOR FILING PUBLICATION DATE SEP 1 4 712 AUG 31 72 Office of Administrative Law REGULATIONS NOTICE AGENCY FILE NUMBER (If any) AGENCY WITH RULEMAKING AUTHORITY Air Resources Board A. PUBLICATION OF NOTICE (Complete for publication in Notice Register) 2. REQUESTED PUBLICATION DATE FIRST SECTION AFFECTED 1. SUBJECT OF NOTICE September 14, 2012 1900 LEV III GHG ZEV Regulation for Federal Compliance 13 FAX NUMBER (Optional) TELEPHONE NUMBER 4. AGENCY CONTACT PERSON 3. NOTICE TYPE 916-322-3928 Notice re Proposed 916-322-6533 Amy J. Whiting Other $|\mathbf{x}|$ PUBLICATION DATE Regulatory Action NOTICE REGISTER NUMBER ACTION ON PROPOSED NOTICE OAL USE 2012 Approved as Disapproved Approved as Withdrawn Modified ONLY Submitted B. SUBMISSION OF REGULATIONS (Complete when submitting regulations) 1b. ALL PREVIOUS RELATED OAL REGULATORY ACTION NUMBER(S) 1a. SUBJECT OF REGULATION(S) LEV III GHG ZEV Regulation for Federal Compliance 2. SPECIFY CALIFORNIA CODE OF REGULATIONS TITLE(S) AND SECTION(S) (including title 26, if toxics related) SECTION(S) AFFECTED (List all section number(s) AMEND individually. Attach 1900, 1956.8, 1960.1, 1961, 1961.2, 1961.3, 1962.1, 1962.2, and 1976 additional sheet if needed.) TITLE(S) 13 3. TYPE OF FILING Changes Without Regulatory Certificate of Compliance: The agency officer named Emergency Readopt (Gov. Regular Rulemaking (Gov. Effect (Cal. Code Regs., title Code, §11346.1(h)) below certifies that this agency complied with the Code §11346) 1, 5100) provisions of Gov. Code §§11346.2-11347.3 either Resubmittal of disapproved or before the emergency regulation was adopted or Print Only File & Print withdrawn nonemergency within the time period required by statute. filing (Gov. Code §§11349.3, 11349.41 Resubmittal of disapproved or withdrawn Other (Specify) Emergency (Gov. Code, emergency filing (Gov. Code, §11346.1) 511346.1(b)) 4. ALL BEGINNING AND ENDING DATES OF AVAILABILITY OF MODIFIED REGULATIONS AND/OR MATERIAL ADDED TO THE RULEMAKING FILE (Cal. Code Regs. title 1, \$44 and Gov. Code \$11347.1) Effective § 1.00 Changes Without Effective on filma with other (Specify) Effective 30th day after Secretary of State filing with Secretary of State 5. CHECK IF THESE REGULATIONS REQUIRE NOTICE TO, OR REVIEW, CONSULTATION, APPROVAL OR CONCURRENCE BY, ANOTHER AGENCY OR ENTITY State Fire Marshal Fair Political Practices Commission Department of Finance (Form STD, 399) (SAM §6660) N/AOther (Specify) E-MAIL ADDRESS (Optional) FAX NUMBER (Optional) TELEPHONE NUMBER CONTACT PERSON (916) 322-3928 awhiting@arb.ca.gov Amy J. Whiting, Regulations Coord (916) 322-6533 For use by Office of Administrative Law (OAL) only I certify that the attached copy of the regulation(s) is a true and correct copy of the regulation(s) identified on this form, that the information specified on this form is true and correct, and that I am the head of the agency taking this action, ENDORSED APPROVED or a designee of the head of the agency, and am authorized to make this certification. SIGNATURE OF AGENCY HEAD, OR DESIGNED 12/6/12 Executive Officer ใช้โดย 6 คณฑัตรสถานโดย Law

per agency request

State of California AIR RESOURCES BOARD

CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES FOR 2004 AND SUBSEQUENT MODEL HEAVY-DUTY OTTO-CYCLE ENGINES

Adopted:

December 27, 2000

Amended:

December 12, 2002

Amended: Amended:

July 26, 2007 October 17, 2007

Amended:

September 27, 2010

Amended:

March 22, 2012

Amended:

December 6, 2012

Note: The proposed amendments to this document are shown in <u>underline</u> to indicate additions and strikeout to indicate deletions compared to the test procedures as adopted March 22, 2012. [No change] indicates proposed federal provisions that are also proposed for incorporation herein without change. Existing intervening text that is not amended in this rulemaking is indicated by "* * * *".

CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES FOR 2004 AND SUBSEQUENT MODEL HEAVY-DUTY OTTO-CYCLE ENGINES

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

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

10. Emission standards for Otto-cycle heavy-duty engines and vehicles. [§86.xxx-10]

California provisions. В.

1. Exhaust emissions from new 2004 and later model year Otto-cycle medium- and heavy-duty engines, except for Otto-cycle medium- and heavy-duty engines subject to the alternative standards in 40 CFR §86.005-10(f), shall not exceed:

California Emission Standards for 2004 and Subsequent Model Heavy-Duty Otto-Cycle Engines^A

(in g/bhp-hr)

			NIN 41 10	NOV	COH	НСНО	PM
Model Year	Emission	NMHC + NOx	NMHC	NOx		HOHO	1 141
	Category			11- 2004	طعييمسطه ا	2019 2021	1 Model
Standards for	· Heavy-Du	ty Otto-Cycle Er	ngines Us	ea in 2004	i tilrougn	TOTO CITOR	t Model
Medium-Duty	Vahialac 8	504 to 10 000 b	ounds GV	'vv= and ∠u	JU4 anu s	านมออดุนอา	It Model
· .	Medium	-Duty Vehicles 1	0,001 to 1	4,000 pou	mus Gvv	V	
2004	ULEV	2.4 or 2.5 with 0.5 NMHC	n/a	n/a	14.4	0.05	n/a
		cap ^D					
	SULEV	2.0	n/a	n/a	7.2	0.025	n/a
2005 through 2007 ^F	ULEV.	1.0 ^{D,F}	n/a	n/a	14.4	0.05	n/a
	SULEV	0.5 ^{D,F}	n/a	n/a	7.2	0.025	n/a
2008 and subsequent ^G	ULEV	n/a	0.14 ^F	0.20 ^F	14.4	0.01	0.01
	SULEV	n/a	0.07 ^F	0.10 ^F	7.2	0.005	0.005
	Standar	ds for Heavy-Du	ity Otto-C	ycle Engii	nes Used	ln	•
	Hea	vy-Duty Vehicle	s Over 14	,000 poun	ds GVW		
2004	n/a	2.4 or 2.5 with 0.5 NMHC cap ^D	n/a	n/a	37.1	0.05 ^E	n/a
2005 through 2007 ^F	n/a	1.0 ^{C,E}	n/a	n/a	37.1	0.05 ^E	n/a
2008 and subsequent ^G	n/a	n/a	0.14 ^F	0.20 ^E	14.4	0.01	0.01

 $^{^{\}rm B}$ For the 20202 and subsequent model years, medium-duty vehicles 8,501 to 10,000 pounds GVW must certify to the <u>LEV III</u> primary emission standards and test procedures for complete vehicles specified in section 1961.2, title 13, CCR.

2. Optional Standards for Complete <u>and Incomplete</u> Heavy-Duty Vehicles.

Manufacturers may request to group complete <u>and incomplete</u> heavy-duty vehicles into the same test group as vehicles certifying to the LEV III exhaust emission standards and test procedures specified in title 13, CCR, §1961.2, so long as those complete <u>and incomplete</u> heavy-duty Otto-cycle vehicles meet the most stringent LEV III standards to which any vehicle within that test group certifies.

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:

October 17, 2007

Amended:

October 14, 2008

Amended:

September 27, 2010

Amended:

October 12, 2011

Amended:

March 22, 2012

Amended:

December 6, 2012

Note: The proposed amendments to this document are shown in <u>underline</u> to indicate additions and strikeout to indicate deletions compared to the test procedures as adopted March 22, 2012. [No change] indicates proposed federal provisions that are also proposed for incorporation herein without change. Existing intervening text that is not amended in this rulemaking is indicated by " * * * * *".

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

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.

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.

- 11. Emission standards for diesel heavy-duty engines and vehicles. [§86.xxx-11]
 - A. California provisions.
 - 5. Standards for Medium-Duty Engines.
 - Sequirements Specific to Heavy-Duty Engines Used in Medium-Duty Vehicles 8,501 to 10,000 pounds GVW. For the 2004 through 2019 2021 model years, a manufacturer of heavy-duty engines used in medium-duty vehicles 8,501 to 10,000 pounds GVW may choose to comply with the following standards as an alternative to the primary emission standards and test procedures specified in title 13, CCR, §1961 or §1961.2, as applicable. A manufacturer that chooses to comply with these optional heavy-duty standards and test procedures shall specify, in the application for certification, an in-use compliance test procedure, as provided in title 13, CCR, §2139(c). For the 20202 and subsequent model years, a manufacturer of heavy-duty engines used in medium-duty vehicles 8,501 to 10,000 pounds

GVW must comply with the primary emission standards and test procedures specified in title 13, CCR, §1961.2.

Exhaust Emission Standards for Medium-Duty Engines. The exhaust emissions from new 2004 through 2019 2021 model heavy-duty diesel engines used in ultra-low emission and super-ultra-low emission medium-duty diesel vehicles 8,501 to 10,000 pounds GVW and 2004 and subsequent model heavy-duty diesel engines used in ultra-low emission and super-ultra-low emission medium-duty diesel vehicles 10,001 to 14,000

nounds GV/W shall not exceed.

pounds GVVV shall not exceed.												
Exhaust Emission Standards for 2004 through 2006 Model												
Medium-Duty ULEVs and SULEVs												
Vehicle Emission	NOx + I		СО	РМ	нсно							
Category ULEV ¹	2.5 (with a		14.4	0.10	0.050							
Option A ULEV ¹ ;	NMHC) 2.4		14.4	0.10	0.050							
Ontion B		,										
Exhaust Emission Standards for 2007 through 2019 2021 Model												
Medium-Duty ULEVs and SULEVs 8,501-10,000 lbs. GVW												
and 2007 and Subsequent Model												
Medium-Duty ULEVs and SULEVs 10,001-14,000 lbs. GVW												
Vehicle Emission	NOx	NMHC or NMHCE	co	PM	нсно							
Category ULEV ¹	0.20	0.14	15.5	0.01	0.050							
SULEV ¹	0.10	0.07	7.7	0.005	0.025							

Emissions averaging may be used to meet these standards using the requirements for participation averaging, banking and trading programs, as set forth in Section I.15 of these test procedures.

Optional Standards for Complete and Incomplete Heavy-Duty Vehicles. Manufacturers may request to group complete and incomplete heavy-duty vehicles into the same test group as vehicles certifying to the LEV III exhaust emission standards and test procedures specified in title 13, CCR, §1961.2, so long as those complete and incomplete heavy-duty diesel vehicles meet the most stringent LEV III standards to which any vehicle within that test group certifies.

II. TEST PROCEDURES

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

1065.701 General requirements for test fuels. April 30, 2010.

- B. California provisions.
- 3. Identification of New Clean Fuels to be Used in Certification Testing. Any person may petition the state board to establish by regulation certification testing specifications for a new clean fuel for which specifications for the new clean fuel are not specifically set forth in paragraph §86.1313-98 as amended herein. Prior to adopting such specifications, the state board shall consider the relative cost-effectiveness of use of the fuel in reducing emissions compared to the use of other fuels. Whenever the state board adopts specifications for a new clean fuel for certification testing, it shall also establish by regulation specifications for the fuel as it is sold commercially to the public.
 - (a) If the proposed new clean fuel may be used to fuel existing motor vehicles, the state board shall not establish certification specifications for the fuel unless the petitioner has demonstrated that:
 - (1) Use of the new clean fuel in such existing motor vehicles would not increase emissions of NMHC, NOx, and CO, and the potential risk associated with toxic air contaminants, as determined pursuant to the procedures set forth in the "California Test Procedures for Evaluating Substitute Fuels and New Clean Fuels through 2014," as amended March 22, 2012 or the "California Test Procedures for Evaluating Substitute Fuels and New Clean Fuels in 2015 and Subsequent Years," as adopted March 22, 2012 which are incorporated by reference in title 13, CCR, §2317, as applicable. In the case of fuel-flexible vehicles or dual-fuel vehicles that were not certified on the new clean fuel but are capable of being operated on it, exhaust and evaporative emissions from the use of the new clean fuel shall not increase compared to exhaust and evaporative emissions from the use of gasoline that complies with Title 13, Division 3, Chapter 5, Article 1, California Code of Regulations.