State of California
AIR RESOURCES BOARD

FINAL
Phase 1 Greenhouse Gas and Optional Low NOx Amendments to

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

Adopted: December 27, 2000
Amended: December 12, 2002
Amended: July 26, 2007
Amended: October 17, 2007
Amended: September 27, 2010
Amended: March 22, 2012
Amended: December 6, 2012
Amended: April 18, 2013 (Corrected by Section 100)
Amended: October 21, 2014

Note: The proposed amendments to this document are shown in underline to indicate additions and strikeout to indicate deletions compared to the test procedures as adopted April 18, 2013. Existing intervening text that is not amended in this rulemaking is indicated by “* * * *”. [No change] indicates proposed federal provisions that are also proposed for incorporation herein without change.
NOTE: This document is incorporated by reference in section 1956.8(d), title 13, California Code of Regulations (“CCR”) and also incorporates by reference various sections of Title 40, Part 86 of the Code of Federal Regulations, with some modifications. It contains the majority of the requirements necessary for certification of heavy-duty Otto-cycle engines for sale in California, in addition to containing the exhaust emissions standards and test procedures for these Otto-cycle engines.¹ The section numbering conventions for this document are set forth in subparagraph 4 on page 4. Reference is also made in this document to other California-specific requirements that are necessary to complete an application for certification. These other documents are designed to be used in conjunction with this document. They include:

1. “California Evaporative Emission Standards and Test Procedures for 2001 and Subsequent Model Motor Vehicles,” as last amended December 6, 2012 (incorporated by reference in section 1976, title 13, CCR);

2. Warranty requirements (sections 2035, et seq., title 13, CCR);

3. OBD II (section 1968, et seq., title 13, CCR, as applicable);

4. “California Test Procedures for Evaluating Substitute Fuels and New Clean Fuels through 2014,” as last amended March 22, 2012 (incorporated by reference in section 2317, title 13, CCR); and


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

The following provisions of Subparts A, N, and P, Part 86, of Subparts A through I, Part 1036, and of Subparts A through K, Part 1065, Title 40, Code of Federal Regulations ("CFR"), as adopted or amended by the U.S. Environmental Protection Agency on the date set forth next to the 40 CFR Part 86 section listed below, and only to the extent they pertain to the testing and compliance of exhaust emissions from heavy-duty Otto-cycle engines, are adopted and incorporated herein by this reference as the “California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Otto-Cycle Engines,” with the following exceptions and additions.

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


1. General Applicability. [§86.xxx-1]

A. Federal provisions.
   1. §86.001-1. October 6, 2000.
      1.1 Subparagraph (a). [No change.]
      1.2 Delete subparagraph (b) and replace with the following: A manufacturer must certify any complete heavy-duty vehicle of 14,000 pounds gross vehicle weight rating or less in accordance with the medium-duty vehicle provisions contained in the “California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles,” incorporated herein by reference. Heavy-duty engine or vehicle provisions of subpart A do not apply to such a vehicle.
      1.3 Subparagraph (c). [n/a (ADP for LDVs)]
      1.4 Subparagraph (d). [n/a (NLEVs)]
      1.5 Amend subparagraph (e) as follows: Small volume manufacturers. Special certification procedures are available for any manufacturer whose projected or actual combined California sales of passenger cars, light-duty trucks, medium-duty vehicles, heavy-duty vehicles and heavy-duty engines in its product line are fewer than 4,500 units based on the average number of vehicles sold for the three previous consecutive model years for which a manufacturer seeks certification. For a manufacturer certifying for the first time in California, model-year production shall be based on projected California sales. The small volume manufacturer’s heavy-duty engine certification procedures are described in 40 CFR §86.092-14.
1.6 Subparagraph (f). [n/a; exhaust opacity refers to diesel engines.]

2. §86.005-1 October 6, 2000.
   2.1 Subparagraph (a). [No change.]
   2.2 Delete subparagraph (b) and replace with the following: A manufacturer must certify any complete heavy-duty vehicle of 14,000 pounds gross vehicle weight rating or less and any 2020 and subsequent model incomplete heavy-duty vehicle of 10,000 pounds gross vehicle weight rating or less in accordance with the medium-duty vehicle provisions contained in the “California 2001 through 2014 Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2009 through 2016 Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles,” incorporated by reference in §1961(d), title 13, CCR or the “California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles,” incorporated by reference in section 1961.2, title 13, CCR, as applicable. Heavy-duty engine or vehicle provisions of subpart A do not apply to such a vehicle.
   2.3 Subparagraph (c). [No change.]
   2.4 Subparagraph (d). [Reserved.]
   2.5 Amend subparagraph (e) as follows: Small volume manufacturers. Special certification procedures are available for any manufacturer whose projected or actual combined California sales of passenger cars, light-duty trucks, medium-duty vehicles, heavy-duty vehicles and heavy-duty engines in its product line are fewer than 4,500 units based on the average number of vehicles sold for the three previous consecutive model years for which a manufacturer seeks certification. For a manufacturer certifying for the first time in California, model-year production shall be based on projected California sales. The small volume manufacturer’s heavy-duty engine certification procedures are described in 40 CFR §86.092-14.
   2.6 Subparagraph (f). [n/a; exhaust opacity refers to diesel engines.]

3. §86.016-1 September 15, 2011.
   3.1 Subparagraph (a). Applicability. [No change.]
   3.2 Delete subparagraph (b) and replace with the following: A manufacturer must certify any complete heavy-duty vehicle of 14,000 pounds gross vehicle weight rating or less and any 2020 and subsequent model incomplete heavy-duty vehicle of 10,000 pounds gross vehicle weight rating or less in accordance with the medium-duty vehicle provisions contained in the “California 2001 through 2014 Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2009 through 2016 Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles,” as amended December 6, 2012, incorporated by reference in §1961(d), title 13, CCR or the “California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks
and Medium-Duty Vehicles,” as amended December 6, 2012, incorporated by reference in section 1961.2, title 13, CCR, as applicable. Heavy-duty engine or vehicle provisions of subpart A do not apply to such a vehicle.

3.3 Subparagraph (c) through (c)(1). [No change.]

3.4 Delete subparagraph (c)(2) and replace with the following: On-board diagnostic requirements according to the provisions of title 13, CCR, sections 1968.2 and 1968.5 or title 13, CCR, sections 1971.1 and 1971.5, as applicable.

3.5 Delete subparagraph (c)(3) and replace with the following: Evaporative emission standards according to the provisions of title 13, CCR, section 1976.

3.6 Delete subparagraph (c)(4) and replace with the following: Refueling emission standards according to the provisions of title 13, CCR, section 1978.

3.7 Subparagraph (d). Non-petroleum fueled vehicles. [No change.]

3.8 Amend subparagraph (e) as follows: Small volume manufacturers. Special certification procedures are available for any manufacturer whose projected or actual combined California sales of passenger cars, light-duty trucks, medium-duty vehicles, heavy-duty vehicles and heavy-duty engines in its product line are fewer than 4,500 units based on the average number of vehicles sold for the three previous consecutive model years for which a manufacturer seeks certification. For a manufacturer certifying for the first time in California, model-year production shall be based on projected California sales. To certify its product line under these optional procedures, the small volume manufacturer must first obtain the Executive Officer’s approval. The manufacturer must meet the eligibility criteria specified in 40 CFR §86.094-14(b) before the Executive Officer’s approval will be granted. The small volume manufacturer’s heavy-duty engine certification procedures are described in 40 CFR §86.098-14.

3.9 Subparagraph (f). [n/a; exhaust opacity refers to diesel engines.]

B. California provisions.

1. These regulations are applicable to all heavy-duty Otto-cycle methanol-fueled, ethanol-fueled, natural-gas-fueled and liquefied-petroleum-gas-fueled dedicated, dual-fuel and multi-fuel engines (and vehicles) except those engines derived from existing diesel engines. For any engine which is not a distinctly Otto-cycle engine nor derived from such, the Executive Officer shall determine whether the engine shall be subject to these regulations or alternatively to the heavy-duty diesel engine regulations, in consideration of the relative similarity of the engine’s torque-speed characteristics and vehicle applications with those of Otto-cycle and diesel engines. Reference to dual-fuel vehicles or engines shall also mean bi-fuel vehicles or engines.

2. References in the federal regulations to light-duty vehicles and light-duty trucks do not apply.

3. Any reference to vehicle or engine sales throughout the United States shall mean vehicles and engines sales in California. Any reference to small
volume manufacturer shall mean a California small-volume manufacturer as defined in section I.1.A., above.

4. Regulations concerning U.S. EPA hearings, U.S. EPA inspections, specific language on the Certificate of Conformity, evaporative emissions, high-altitude vehicles and testing, particulate and oxides of nitrogen averaging and test group standards applicable in such averaging, alternative useful life, selective enforcement audit, and Certification Short Test shall not be applicable to these procedures, except where specifically noted. The regulations pertaining to evaporative emissions are contained in "California Evaporative Emission Standards and Test Procedures for 2001 and Subsequent Model Motor Vehicles," as incorporated in §1976, title 13, CCR.

2. Definitions. [§86.xxx-2]

A. Federal provisions.
All of the definitions in previous CFR sections continue to apply, except as otherwise noted below. Definitions specific to other requirements such as evaporative emissions are contained in those separate documents.

2. §86.010-2. February 24, 2009.

3.1 Amend paragraph as follows: The definitions of §86.010-2 continue to apply to model year 2010 and later model year engines and vehicles. The definitions listed in this section apply beginning with model year 2012. "GHG Urban Bus" means a passenger-carrying vehicle with a load capacity of fifteen or more passengers and intended primarily for intracity operation, i.e., within the confines of a city or greater metropolitan area. GHG urban bus operation is characterized by short rides and frequent stops. To facilitate this type of operation, more than one set of quick-operating entrance and exit doors would normally be installed. Since fares are usually paid in cash or tokens, rather than purchased in advance in the form of tickets, GHG urban buses would normally have equipment installed for collection of fares. GHG urban buses are also typically characterized by the absence of equipment and facilities for long distance travel, e.g., rest rooms, large luggage compartments, and facilities for stowing carry-on luggage.

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.
"Designated Compliance Officer" means the Executive Officer of the Air Resources Board or his or her delegate.
“EPA” means “Air Resources Board” or the Executive Officer of the Air Resources Board.

“EPA Enforcement Officer” means the Executive Officer of the Air Resources Board or his or her delegate.

“Medium-Duty Engine” means a heavy-duty engine that is used in a medium-duty vehicle.

“Medium-Duty Vehicle” means any 1992 through 2006 model-year heavy-duty low-emission, ultra-low-emission, super-ultra-low-emission or zero-emission vehicle certified to the standards in section 1960.1(h)(2) having a manufacturer’s gross vehicle weight rating of 14,000 pounds or less and any 2000 and subsequent model heavy-duty low-emission, ultra-low-emission, super-ultra-low-emission or zero-emission vehicle certified to the standards in section 1961(a)(1), 1961.2, or 1962 having a manufacturer’s gross vehicle weight rating between 8,500 and 14,000 pounds.

“Optional Low NOx Engine” means a 2015 or subsequent model heavy-duty Otto-cycle engine certified to the optional low NOx emission standards, which are below the 0.20 g/bhp-hr emission standard for 2007 and subsequent model engines. The optional low NOx emission standards are 0.10, 0.05, or 0.02 g/bhp-hr.

“Warranty” means the warranty provisions set forth in title 13, California Code of Regulations §2036.

* * * *

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

A. Federal provisions.

* * * *

B. California provisions.

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:

<table>
<thead>
<tr>
<th>California Emission Standards for 2004 and Subsequent Model Heavy-Duty Otto-Cycle Engines A</th>
</tr>
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<tbody>
<tr>
<td>(in g/bhp-hr)</td>
</tr>
<tr>
<td>Model Year</td>
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<td>---------------------</td>
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<tr>
<td><strong>Standards for Heavy-Duty Otto-Cycle Engines Used In 2004 through 2019 Model</strong>&lt;br&gt;Medium-Duty Vehicles 8,501 to 10,000 pounds GVW(^B) and 2004 and Subsequent Model**&lt;br&gt;Medium-Duty Vehicles 10,001 to 14,000 pounds GVW(^C)**</td>
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<tr>
<td>2004</td>
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<td>2005 through 2007(^F)</td>
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<td>2008 and subsequent(^G)</td>
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<td></td>
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<tr>
<td><strong>Standards for Heavy-Duty Otto-Cycle Engines Used In</strong>&lt;br&gt;Heavy-Duty Vehicles Over 14,000 pounds GVW</td>
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<tr>
<td>2004</td>
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<tr>
<td>2005 through 2007(^F)</td>
</tr>
<tr>
<td>2008 and subsequent(^G)</td>
</tr>
<tr>
<td>2015 and subsequent(^I)</td>
</tr>
</tbody>
</table>

\(^A\) These standards apply to petroleum-fueled, alcohol-fueled, liquefied petroleum gas-fueled and natural gas-fueled Otto-cycle engines. Alcohol-fueled engines have the option of certifying to the organic material hydrocarbon equivalent ("OMHCE") or organic material non-methane hydrocarbon equivalent ("OMNMHCE") standard.

\(^B\) For the 2020 and subsequent model years, medium-duty vehicles 8,501 to 10,000 pounds GVW must certify to the primary emission standards and test procedures for complete vehicles specified in section 1961.2, title 13, CCR.

\(^C\) A manufacturer of engines used in incomplete medium-duty vehicles may choose to comply with these standards as an alternative to the primary emission standards and test procedures for complete vehicles specified in section 1961 or 1961.2, title 13, CCR. A manufacturer that chooses to comply with these optional heavy-duty engine standards and test procedures shall specify, in the Part I application for certification, an in-use compliance test procedure, as provided in section 2139(c), title 13 CCR.

\(^D\) A manufacturer may request to certify to the Option 1 or Option 2 federal NMHC + NOx standards as set forth in 40 CFR §§6.005-10(f). However, for engines used in medium-duty vehicles the formaldehyde level must meet the standard specified above.

\(^E\) This standard only applies to methanol-fueled Otto-cycle engines.

\(^F\) A manufacturer may elect to include any or all of its medium- and heavy-duty Otto-cycle engine families in any or all of the emissions ABT programs for HDEs, within the restrictions
described in section I.15 of these test procedures. For engine families certified to the Option 1 or 2 federal standards the FEL must not exceed 1.5 g/bhp-hr. If a manufacturer elects to include engine families certified to the 2005 and subsequent model year standards, the NOx plus NMHC FEL must not exceed 1.0 g/bhp-hr. For engine families certified to the 2008 and subsequent model year standards, the FEL is the same as set forth in 40 CFR 86.008-10(a)(1).

G A manufacturer may elect to include any or all of its medium- and heavy-duty Otto-cycle engine families in any or all of the emissions ABT programs for HDEs, within the restrictions described in section I.15 of these test procedures.

H Idle carbon monoxide: For all Otto-cycle heavy-duty engines utilizing aftertreatment technology, and not certified to the on-board diagnostics requirements of title 13, CCR, §1968, et seq, as applicable, the CO emissions shall not exceed 0.50 percent of exhaust gas flow at curb idle.

I Optional Low NOx Emission Standards from Heavy Duty Engines. Manufacturers may choose to produce heavy duty engines that emit less NOx emissions than standard 0.20 g/bhp-hr engines. A manufacturer may not include an engine family certified to the optional NOx emission standards in the ABT programs for NOx but may include it for NMHC.

2. 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 Otto-cycle vehicles meet the most stringent LEV III standards to which any vehicle within that test group certifies.

* * * *

15. NOx and particulate averaging, trading, and banking for heavy-duty engines. [§86.xxx-15.]
   A. Federal provisions.
      1. §86.004-15. October 6, 2000. [No change.]
      2. §86.007-15. January 18, 2001. Amend as follows:
         2.1 Subparagraphs (a) through (m)(2): [No change.]
         2.2 Subparagraph (m)(3): Delete.
         2.3 Subparagraphs (m)(4) through m(10). [No change.]
   B. California provisions.
      1. A manufacturer may not include an engine family certified to the optional NOx emission standards in the ABT programs for NOx but may include it for NMHC.

* * * *

23. Required data. [§86.xxx-23]
   A. Federal provisions.
      1. §86.001-23. October 21, 1997. [No change.]
35. **Labeling.** [§86.xxx-35]

A. **Federal provisions.**
   1. §86.001-35. April 6, 1994.
      1.1 Add the following sentence to the introductory paragraph: The labeling requirements of this section shall apply to all new motor vehicle engines certified according to the provisions of California Health and Safety Code Section 43100.
      1.2 Subparagraphs (a)(1) through (a)(3)(iii)(G). [No change.]
      1.3 Amend subparagraph (a)(3)(iii)(H) as follows: An unconditional statement of compliance with the appropriate model year California regulations; for example, “This engine conforms to California regulations applicable to XXXX model year new heavy-duty Otto-cycle engines.” It may also state that the engine conforms to any applicable federal or Canadian emission standards for new heavy-duty Otto-cycle engines.
   2. §86.007-35. August 30, 2006. [No change, except as noted above for §86.001-35.]

B. **California Provisions**
   1. For 2004 through 2007 model year engines certified to the optional standards in §86.005-10(f) the following statement shall also be printed on the label, “This engine conforms to the California ULEV standards applicable to 20XX model year Heavy-Duty Otto-Cycle Engines.”
   2. For 2015 and subsequent model year Otto-cycle engines certified to the Optional Low NOx Engine emission standards, the label shall contain the following statement: “This engine conforms to California regulations applicable to XXXX model year heavy-duty Otto-cycle engines and is certified to the Optional Low NOx Engine emission standard of XXX g/bhp-hr.”
PART 1036 – CONTROL OF EMISSIONS FROM NEW AND IN-USE HEAVY-DUTY HIGHWAY ENGINES

Subpart A – Overview and Applicability

1036.1 Does this part apply for my engines? September 15, 2011.
1036.2 Who is responsible for compliance? September 15, 2011.
1036.5 Which engines are excluded from this part’s requirements? June 17, 2013.
1036.10 How is this part organized? September 15, 2011.
1036.15 Do any other regulation parts apply to me? September 15, 2011.
1036.30 Submission of information. September 15, 2011.

1. Amend subparagraph as follows: Send all reports and requests for approval to the ARB Designated Compliance Officer, as follows: Chief, Emissions Compliance, Automotive Regulations and Science Division, California Air Resources Board, 9480 Telstar Avenue, Ste. #4, El Monte, CA 91731.

Subpart B – Emission Standards and Related Requirements

1036.100 Overview of exhaust emission standards. September 15, 2011.

1. Add the following section to the introductory paragraph: Optional Compliance via the 2014 MY National Heavy-Duty Engine and Vehicle Greenhouse Gas Program.

For the 2014 through 2022 model years, a manufacturer may elect to demonstrate compliance with this section, §1036.108, for all of its applicable heavy-duty engines by demonstrating compliance with the 2014 MY National Heavy-Duty Engine and Vehicle Greenhouse Gas Program, if it meets the criteria identified below.

(1) A manufacturer that selects compliance with this option must notify the Executive Officer of that selection, in writing, prior to the start of the applicable model year or December 1, 2014, whichever is later;

(2) The manufacturer must submit to ARB all data that it submitted to U.S. Environmental Protection Agency in accordance with the reporting requirements as required under 40 CFR §1036.205, §1036.250, and §1036.730, for demonstrating compliance with the 2014 MY National Heavy-Duty Engine and Vehicle Greenhouse Gas Program and the U.S. Environmental Protection Agency determination of compliance. With the exception of the 2014 model year, all such data must be submitted within 30 days of receipt of the U.S. Environmental Protection Agency Certificate of Conformity or of the date of submission to the U.S. Environmental Protection Agency, whichever is later, for each model year that a manufacturer selects compliance with this option;

(3) The manufacturer must provide to the Executive Officer separate numbers for each engine family of heavy-duty engines produced and delivered for sale in California each model year and all values used in calculating positive or negative emission credits in §1036.730.

1036.115 Other requirements. September 15, 2011.
1036.130 Installation instructions for vehicle manufacturers. September 15, 2011.
   1. Subparagraph (a) through (b)(1). [No change.]
   2. Delete and replace subparagraph (b)(2), as follows: State “Failing to follow
      these instructions when installing a certified engine in a heavy-duty motor vehicle
      violates federal and state law, subject to fines or other penalties as described in the
      Clean Air Act and California Health and Safety Code.”
   3. Subparagraph (b)(3) through (d). [No change.]

   1. Amend the introductory paragraph as follows: Beginning January 1, 2015,
      label your engines as described in 40 CFR §86.007-35(a)(3), as modified by these test
      procedures, with the following additional information:
   2. Subparagraph (a) through (d). [No change.]

1036.140 Primary intended service class. September 15, 2011.

Subpart C – Certifying Engine Families

1036.205 What must I include in my application? June 17, 2013.
1036.210 Preliminary approval before certification. September 15, 2011.
1036.241 Demonstrating compliance with greenhouse gas pollutant standards.
      September 15, 2011.
1036.250 Reporting and recordkeeping for certification. September 15, 2011.
1036.255 What decisions may EPA make regarding my certificate of conformity?
      September 15, 2011.

Subpart D – [Reserved]

Subpart E – In-use Testing

1036.401 In-use testing. September 15, 2011.

Subpart F – Test Procedures

1036.530 Calculating greenhouse gas emission rates. September 15, 2011.

Subpart G – Special Compliance Provisions

1036.601 What compliance provisions apply to these engines?
September 15, 2011.

1036.610 Innovative technology credits and adjustments for reducing greenhouse gas emissions. September 15, 2011.
   1. Subparagraphs (a) through (c). [No change.]
   2. Amend subparagraph (d) as follows: We may seek public comment on your request. However, we will generally not seek public comment on credits/adjustments based on A to B engine dynamometer testing, chassis testing, or in-use testing.

1036.620 Alternate CO₂ standards based on model year 2011 compression-ignition engines. [n/a; diesel]
1036.625 In-use compliance with family emission limits (FELs). September 15, 2011.

Subpart H – Averaging, Banking, and Trading for Certification

1036.701 General provisions. September 15, 2011.
1036.705 Generating and calculating emission credits. September 15, 2011.
1036.710 Averaging. September 15, 2011.
1036.715 Banking. September 15, 2011.
1036.725 What must I include in my application for certification? September 15, 2011.
1036.730 ABT reports. September 15, 2011.
1036.735 Recordkeeping. September 15, 2011.
1036.740 Restrictions for using emission credits. September 15, 2011.
1036.745 End-of-year CO₂ credit deficits. September 15, 2011.
1036.750 What can happen if I do not comply with the provisions of this subpart? September 15, 2011.

Subpart I – Definitions and Other Reference Information


   A. Federal Provisions. [All federal definitions apply, except as otherwise noted below.]

   B. California Provisions.
   “2014 MY National Heavy-Duty Engine and Vehicle Greenhouse Gas Program” means the national program that applies to new 2014 and subsequent model medium- and heavy-duty engines and vehicles to control greenhouse gas emissions, as adopted by the U.S. Environmental Protection Agency (76 Fed. Reg. 57106 (September 15, 2011)) and as subsequently amended on June 17, 2013, as incorporated in and amended by these test procedures.
   “Certificate of Conformity” means an Executive Order certifying vehicles for sale in
California.
“Certification” means relating to the process of obtaining an Executive Order for an engine family that complies with the emission standards and requirements in this part.
“Designated Compliance Officer” means the Executive Officer of the Air Resources Board or a designee of the Executive Officer.
“Designated Enforcement Officer” means the Executive Officer of the Air Resources Board or a designee of the Executive Officer.
“EPA” shall also mean Air Resources Board or Executive Officer of the Air Resources Board.
“Manufacturer” means any person who manufactures an engine, vehicle, or piece of equipment for sale in California or otherwise introduces a new engine into commerce in California. This includes importers who import engines or vehicles for resale.
“U.S. Environmental Protection Agency” means the United States Environmental Protection Agency.
“We (us, our)” means the Executive Officer and any authorized representatives.

1036.805 Symbols, acronyms, and abbreviations. September 15, 2011.
1036.810 Incorporation by reference. September 15, 2011.
1036.815 Confidential information. September 15, 2011.

A. Federal Provisions. [No change.]

B. California Provisions. The provisions of title 17, CCR section 91000 through 91022 apply for information you consider confidential. Note that according to section 91011, emissions data shall not be identified as confidential.

1036.820 Requesting a hearing. September 15, 2011.
1. Delete subparagraph (a) and replace as follows: You may request a hearing under certain circumstances, as described elsewhere in this part.
2. Subparagraph (b). [No change.]
3. Amend subparagraph (c) as follows: If we agree to hold a hearing, we will use the procedures specified in 17 CCR sections 60055.1 through 6055.43.

1036.825 Reporting and recordkeeping requirements. September 15, 2011.
1. Subparagraphs (a) through (d). [No change.]
2. Delete subparagraph (e).
PART 1065 – ENGINE-TESTING PROCEDURES.

Subpart A – Applicability and General Provisions.

1065.1 Applicability. September 15, 2011.
   1. Amend subparagraph (a) as follows:
      1.1. Introductory paragraph. [No change.]
      1.2. Subparagraphs (a)(1). [n/a]
      1.3. Amend subparagraph (a)(2) as follows: Model year 2010 and later heavy-duty highway engines we regulate under title 13, CCR, §1956.8. For earlier model years, manufacturers may use the test procedures in this part or those specified in 40 CFR part 86, subpart N, according to §1065.10, as modified by these test procedures.
      1.4. Subparagraphs (a)(3) through (a)(8). [n/a]
   2. Subparagraph (b). [n/a]
   3. Subparagraph (c) through (g h). [No change.]

1065.2 Submitting information to EPA under this part. April 30, 2010.
   1. Subparagraphs (a) through (d). [No change.]
   2. Amend subparagraph (e) as follows: See title 137, CCR, section 91011 for provisions related to confidential information. Note that according to this section, emission data shall not be identified as confidential.
   3. Subparagraph (f). [No change.]

1065.5 Overview of this part 1065 and its relationship to the standard-setting part. October 30, 2009.
1065.10 Other procedures. April 30, 2010.
1065.15 Overview of procedures for laboratory and field testing. September 15, 2011.
1065.20 Units of measure and overview of calculations. September 15, 2011.

Subpart B – Equipment Specifications.

1065.125 Engine intake air. September 15, 2011.
1065.140 Dilution for gaseous and PM constituents. September 15, 2011.
1065.145 Gaseous and PM probes, transfer lines, and sampling system components. April 30, 2010.
Batch sampling for gaseous and PM constituents. September 15, 2011.
PM-stabilization and weighing environments for gravimetric analysis. September 15, 2011.

Subpart C – Measurement Instruments.

Performance specifications for measurement instruments. September 15, 2011.

Measurement of Engine Parameters and Ambient Conditions


Flow-Related Measurements

Intake-air flow meter. September 15, 2011.

CO and CO2 Measurements

Nondispersive infra-red analyzer. September 15, 2011.

Hydrocarbon Measurements

Flame ionization detector. September 15, 2011.
Nonmethane cutter. September 15, 2011.
Gas chromatograph. September 15, 2011.

NOx Measurements

Chemiluminescent detector. September 15, 2011.
Nondispersive ultraviolet analyzer. September 15, 2011.

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**Subpart G – Calculations and Data Requirements.**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Date</th>
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<tbody>
<tr>
<td>1065.601</td>
<td>Overview</td>
<td>April 30, 2010</td>
</tr>
<tr>
<td>1065.602</td>
<td>Statistics</td>
<td>September 15, 2011</td>
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