

Appendix B.
Emission Test Procedure Changes

California Environmental Protection Agency
AIR RESOURCES BOARD

**CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES FOR
2001 AND SUBSEQUENT MODEL
PASSENGER CARS, LIGHT-DUTY TRUCKS, AND MEDIUM-DUTY VEHICLES**

Adopted: August 5, 1999
Amended: December 27, 2000
Amended: July 30, 2002
Amended: September 5, 2003 (corrected February 20, 2004)
Amended: May 28, 2004
Amended: August 4, 2005
Amended: [INSERT DATE OF AMENDMENT]
Amended: [INSERT DATE OF AMENDMENT]

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 by the Board on June 22, 2006. Amendments to this document as adopted on June 22, 2006 are indicated by double underline to indicate additions and ~~double strikeout~~ to indicate deletions compared to the test procedures as amended on August 2, 2005. Existing intervening test that is not amended is indicated by “* * *”.

**CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES
FOR 2001 AND SUBSEQUENT MODEL
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES**

The provisions of Subparts B, C, and S, Part 86, Title 40, Code of Federal Regulations, as adopted or amended on May 4, 1999 or as last amended on such other date set forth next to the 40 CFR Part 86 section title listed below, and to the extent they pertain to exhaust emission standards and test procedures, are hereby adopted as the "California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles," with the following exceptions and additions.

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

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F. Requirements and Procedures for Durability Demonstration

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4. §86.1823 Durability demonstration procedures for exhaust emissions

- 4.1 §86.1823-01 October 6, 2000. Amend as follows: Add the following sentence to the first paragraph: Beginning with 2010 model-year vehicles or engines, at the time of certification manufacturers shall demonstrate that the emission control devices on their vehicles or engines will not exceed a valid failure rate of 4% or 50 vehicles, whichever is greater, in an engine family, test group or subgroup over the useful life of the vehicles or engines they are installed in. If any emission control device fails at this rate, that constitutes a violation of these test procedures and it entitles the Executive Officer of the Air Resources Board to require that the vehicles or engines they are installed in be recalled or subjected to corrective action as set forth in title 13 CCR, Division 3, Chapter 2, Article 5, sections 2166 through 2174.

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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: [INSERT DATE OF AMENDMENT]

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 by the Board. Existing intervening test that is not amended is indicated by “* * *”.

**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, and N, Part 86, 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 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 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 I. GENERAL PROVISIONS FOR CERTIFICATION AND IN-USE
VERIFICATION OF EMISSIONS.**

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**26. §86.004-26 Mileage and service accumulation; emission
measurements. October 6, 2000**

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§86.004-26 October 6, 2000. Amend as follows: Add the following sentence to the first paragraph: Beginning with 2010 model-year vehicles or engines, at the time of certification manufacturers shall demonstrate that the emission control devices on their vehicles or engines will not exceed a valid failure rate of 4% or 50 vehicles, whichever is greater, in an engine family, test group or subgroup over the useful life of the vehicles or engines they are installed in. If any emission control device fails at this rate, that constitutes a violation of these test procedures and it entitles the Executive Officer of the Air Resources Board to require that the vehicles or engines they are installed in be recalled or subjected to corrective action as set forth in title 13 CCR, Division 3, Chapter 2, Article 5, sections 2166 through 2174.,.

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**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: [INSERT DATE OF AMENDMENT]

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 by the Board. Existing intervening test that is not amended is indicated by “* * *”.

**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, 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.**

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**26. §86.004-26 Mileage and service accumulation; emission
measurements. October 6, 2000**

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§86.004-26 October 6, 2000. Amend as follows: Add the following sentence to the first paragraph: Beginning with 2010 model-year vehicles or engines, at the time of certification manufacturers shall demonstrate that the emission control devices on their vehicles or engines will not exceed a valid failure rate of 4% or 50 vehicles, whichever is greater, in an engine family, test group or subgroup over the useful life of the vehicles or engines they are installed in. If any emission control device fails at this rate, that constitutes a violation of these test procedures and it entitles the Executive Officer of the Air Resources Board to require that the vehicles or engines they are installed in be recalled or subjected to corrective action as set forth in title 13 CCR, Division 3, Chapter 2, Article 5, sections 2166 through 2174.

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State of California
AIR RESOURCES BOARD

**CALIFORNIA REFUELING EMISSION STANDARDS AND TEST PROCEDURES
FOR 2001 AND SUBSEQUENT MODEL MOTOR VEHICLES**

Adopted: August 5, 1999
Amended: September 5, 2003
Amended: [INSERT DATE OF AMENDMENT]

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 by the Board. Existing intervening test that is not amended is indicated by “* * *”.

**CALIFORNIA REFUELING EMISSION STANDARDS AND TEST PROCEDURES
FOR 2001 AND SUBSEQUENT MODEL MOTOR VEHICLES**

The provisions of Title 40, Code of Federal Regulations (CFR), Part 86, Subparts B (as adopted or amended by the U.S. Environmental Protection Agency (U.S. EPA) on the date listed) and S (as adopted on May 4, 1999, or as last amended on such other date set forth next to the 40 CFR Part 86 section title listed below) to the extent they pertain to the testing and compliance of vehicle refueling emissions for passenger cars, light-duty trucks and medium-duty vehicles, are hereby adopted as the "California Refueling Emission Standards and Test Procedures for 2001 and Subsequent Model Motor Vehicles" with the following exceptions and additions.

Subpart S Requirements

I. General Certification Requirements for Refueling Emissions

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G. §86.1825-01 Durability Demonstration procedures for refueling emissions.

§86.1825-01 October 6, 2000. Amend as follows: Add the following sentence to the first paragraph: Beginning with 2010 model-year vehicles or engines, at the time of certification manufacturers shall demonstrate that the emission control devices on their vehicles or engines will not exceed a valid failure rate of 4% or 50 vehicles, whichever is greater, in an engine family, test group or subgroup over the useful life of the vehicles or engines they are installed in. If any emission control device fails at this rate, that constitutes a violation of these test procedures and it entitles the Executive Officer of the Air Resources Board to require that the vehicles or engines they are installed in be recalled or subjected to corrective action as set forth in title 13 CCR, Division 3, Chapter 2, Article 5, sections 2166 through 2174.,.

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State of California
AIR RESOURCES BOARD

**CALIFORNIA EVAPORATIVE EMISSION STANDARDS AND TEST PROCEDURES
FOR 2001 AND SUBSEQUENT MODEL MOTOR VEHICLES**

Adopted: August 5, 1999

Amended: [INSERT DATE OF AMENDMENT]

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 by the Board. Existing intervening test that is not amended is indicated by “* * * *”.

CALIFORNIA EVAPORATIVE EMISSION STANDARDS AND TEST PROCEDURES FOR 2001 AND SUBSEQUENT MODEL MOTOR VEHICLES

The provisions of Title 40, Code of Federal Regulations (CFR), Part 86, Subparts A and B as adopted or amended as of July 1, 1989, and Subpart S as adopted or amended on May 4, 1999, insofar as those subparts pertain to evaporative emission standards and test procedures, are hereby adopted as the California Evaporative Emission Standards and Test Procedures for 2001 and Subsequent Model Years, with the following exceptions and additions:

PART I. GENERAL CERTIFICATION REQUIREMENTS FOR EVAPORATIVE EMISSIONS

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PART II. DURABILITY DEMONSTRATION

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2. Durability Demonstration Procedures for Evaporative Emissions

Add new section 2.0: Beginning with 2010 model-year vehicles or engines, at the time of certification manufacturers shall demonstrate that the emission control devices on their vehicles or engines will not exceed a valid failure rate of 4% or 50 vehicles, whichever is greater, in an engine family, test group or subgroup over the useful life of the vehicles or engines they are installed in. If any emission control device fails at this rate, that constitutes a violation of these test procedures and it entitles the Executive Officer of the Air Resources Board to require that the vehicles or engines they are installed in be recalled or subjected to corrective action as set forth in title 13 CCR, Division 3, Chapter 2, Article 5, sections 2166 through 2174.

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