

TITLE 13. MOTOR VEHICLES  
DIVISION 3. AIR RESOURCES BOARD  
CHAPTER 3.5. HEAVY-DUTY DIESEL SMOKE EMISSION TESTING, AND  
HEAVY-DUTY VEHICLE EMISSION CONTROL SYSTEM INSPECTIONS

§ 2180. Applicability.

Unless otherwise noted, this chapter applies to all diesel-powered and gasoline-powered heavy-duty vehicles, including pre-1974 model-year vehicles, operating in the State of California.

Note: Authority cited: Sections 39600, 39601, 43013, 43701 and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, 43701, and 44011.6, Health and Safety Code, and Section 505, Vehicle Code.

§ 2180.1. Definitions.

(a) The definitions of this section supplement and are governed by the definitions set forth in Chapter 2 (commencing with section 39010), Part 1, Division 26 of the Health and Safety Code. The following definitions shall govern the provisions of this chapter.

(1) “Authorized dealer” means a group of independent service and repair facilities that are recognized by the motor vehicle or engine manufacturer as being capable of performing repairs to factory specifications; including warranty repair work.

(2) “ARB post-repair inspection” means a repeat emission control system inspection, conducted by the Air Resources Board at an Air Resources Board-specified site, for the purpose of clearing a Citation issued under section 2185(a)(1)(C).

(3) “ARB post-repair test” means a repeat test, conducted by the Air Resources Board at an Air Resources Board-specified site, for the purpose of clearing a Citation issued under section 2185(a)(1)(C).

(4) “Basic penalty” means the civil penalty of (\$500) for a test procedure or emission control system inspection violation that is to be deposited in the Vehicle Inspection and Repair Fund.

(5) “Citation” means a legal notice issued by the Air Resources Board to the owner of a heavy-duty vehicle requiring the owner to repair the vehicle and to pay a civil penalty.

(6) “Day” means calendar day.

(7) “Defective” means a condition in which an emission control system or an emission control system component is malfunctioning due to age, wear, malmaintenance, or design defects.

(8) “Demonstration of correction” means the documents identified in section 2186.

(9) “Driver” has the same meaning as defined in California Vehicle Code section 305.

(10) “Emission control label” or “ECL” means the label required by the “California Motor Vehicle Emission Control Label Specifications”, incorporated by reference in 13 CCR, section 1965, or Title 40, Code of Federal Regulations (CFR), Part 86, Subpart A.

(11) “Emission control system” means the pollution control components on an engine at the time its engine family is certified, including, but not limited to, the emission control label.

(12) “Executive Officer” means the Executive Officer of the Air Resources Board or his or her designee.

(13) “Federal emission standards” means the emission standards adopted by the U.S. Environmental Protection Agency, pursuant to Title 42 United States Code, section 7521(a), that are required to be met for the certification of heavy-duty vehicles or engines.

(14) “Fleet” means two (2) or more heavy-duty vehicles.

(15) “Heavy-duty commercial vehicle” means a “motor truck” designed, used, or maintained primarily for the transportation of property, as defined in section 410 of the Vehicle Code, and having a gross vehicle weight rating (GVWR) greater than 10,000 pounds.

(16) “Heavy-duty vehicle” means a motor vehicle having a manufacturer's maximum gross vehicle weight rating (GVWR) greater than 6,000 pounds, except passenger cars.

(17) “Inspection procedure” means the test procedure specified in section 2182 and the emission control system inspection specified in section 2183.

(18) “Inspection site” means an area including a random roadside location, a weigh station, or a fleet facility used for conducting the heavy-duty vehicle test procedure, emission control system inspection, or both.

(19) “Inspector” means an Air Resources Board employee with the duty of enforcing Health and Safety Code sections 43701(a) and 44011.6 and title 13, CCR sections 2180 through 2194.

(20) “Issuance” means the act of mailing or personally delivering a Citation to the owner.

(21) “Minimum penalty” means the (\$300) penalty that is to be deposited in the Diesel Emission Reduction Fund pursuant to Health and Safety Code section 44011.6(1).

(22) “Notice of Violation” means a legal notice issued to the owner of a heavy-duty vehicle powered by a pre-1991 model-year diesel engine with a measured smoke opacity exceeding 55 percent but not exceeding 69 percent, requiring the owner to repair the vehicle and submit a demonstration of correction.

(23) “Officer” means a uniformed member of the Department of the California Highway Patrol.

(24) “Opacity” means the percentage of light obstructed from passage through an exhaust smoke plume.

(25) “Owner” means either (A) the person registered as the owner of a vehicle by the California Department of Motor Vehicles (DMV), or its equivalent in another state, province, or country; or (B) a person shown by the registered owner to be legally responsible for the vehicle's maintenance. The person identified as the owner on the registration document carried on the vehicle at the time a Citation is issued shall be deemed the owner unless that person demonstrates that another person is the owner of the vehicle.

(26) "Removal from service" means the towing and storage of a vehicle under the auspices of the Department of the California Highway Patrol.

(27) "Repair facility" means any place where heavy-duty vehicles are repaired, rebuilt, reconditioned, or in any way maintained for the public at a charge, and fleet maintenance facilities.

(28) "SAE J1667" means Society of Automotive Engineers (SAE) Recommended Practice SAE J1667 "Snap-Acceleration Smoke Test Procedure for Heavy-Duty Diesel Powered Vehicles," as issued February 1996 ("1996-02"), which is incorporated herein by reference.

(29) "Schoolbus" means the same as defined in California Vehicle Code section 545.

(30) "Smokemeter" means a detection device used to measure the opacity of smoke in percent opacity.

(31) "Tampered" means missing, modified, or disconnected, or, as it applies to emission control labels, permanently obscured.

(32) "Test procedures," for the purpose of chapter 3.5, means the test procedures set forth in SAE J1667.

(33) "Uncleared Citation" means a Citation for which demonstration of correction and, if required, payment of any civil penalty, has not been made.

Note: Authority cited: Sections 39600, 39601, 43013, 43701 and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, 43701, and 44011.6, Health and Safety Code, Sections 410 and 505, Vehicle Code; title 42 United States Code, section 7521(a); and title 40, Code of Federal Regulations Part 86, Subpart A.

#### § 2181. Responsibilities of the Driver and Inspector During the Inspection Procedure.

(a) Driver of heavy-duty diesel-powered vehicle. The driver of a heavy-duty diesel-powered vehicle selected to undergo the inspection procedure shall do all of the following:

(1) Drive the vehicle to the inspection site upon direction of an officer.

(2) Show proof of driver's license and vehicle registration to the inspector or officer upon request.

(3) Perform the test procedure upon request by an inspector.

(4) Open the vehicle door so that the inspector can observe the driver depress the accelerator pedal.

(5) Permit an emission control system inspection and open the hood of the vehicle upon the request of the inspector.

(6) As applicable, sign the Citation or Notice of Violation to acknowledge its receipt and sign the smoke test report to acknowledge performance of the test procedure.

(b) Driver of heavy-duty gasoline-powered vehicle. The driver of a heavy-duty gasoline-powered vehicle selected to undergo the inspection shall do all of the following:

(1) Drive the vehicle to the inspection site upon direction of an officer.

(2) Show proof of driver's license and vehicle registration to the inspector or officer upon request.

(3) Permit an emission control system inspection and open the hood of the vehicle upon request of the inspector.

(4) As applicable, sign the Citation or Notice of Violation to acknowledge its receipt.

(c) Inspector. The inspector in performing the inspection procedures shall do all of the following:

(1) Advise the driver that refusal to submit to the inspection procedure is a violation of these regulations.

(2) Obtain engine identification information from the vehicle when tested pursuant to section 2182 to determine which opacity standard specified in section 2182 applies.

(3) Except as otherwise provided in section 2181(c)(4), issue a Citation to the driver of a vehicle that fails the test procedure or the emission control system inspection.

(4) Issue a Notice of Violation to the driver of a vehicle powered by a pre-1991 model-year diesel engine with a measured smoke opacity exceeding 55 percent but not exceeding 69 percent, except where a Notice of Violation or Citation has been issued for the vehicle in the preceding 12 months.

(5) Issue a warning to the owner of a heavy-duty diesel-powered vehicle missing its emission control label that the label must be replaced and the engine number identification must be provided to the ARB within 45 days of written notification or receipt of a Citation under section 2183 from the ARB, or it will be conclusively presumed in any subsequent smoke opacity test where the emission control label remains missing that the vehicle is subject to the 40 percent smoke opacity standard in section 2182(a)(1), unless at the time of the subsequent test it is plainly evident from a visual inspection that the vehicle is powered by a pre-1991 model-year engine.

Note: Authority cited: Sections 39600, 39601, 43013 and 43701 and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, 43701, and 44011.6, Health and Safety Code, and Sections 260 and 305, Vehicle Code.

§ 2182. Heavy-Duty Diesel Vehicle Smoke Opacity Standards and Test Procedures; Excessive Smoke.

(a) Standards

(1) No heavy-duty vehicle powered by a 1991 or subsequent model-year diesel engine operating on the highways within the State of California shall exceed 40 percent smoke opacity when tested in accordance with this section unless its engine is exempted under subsection (c) or (d) below.

(2) No heavy-duty vehicle powered by a pre-1991 model-year diesel engine, operating on the highways within the State of California, shall exceed 55 percent smoke opacity when tested in accordance with this section unless its engine is exempted under subsection (c) or (d) below.

(b) Exemptions

(1) The Executive Officer shall exempt from subsections (a)(1) and (2) any engine family that is shown by the engine manufacturer to the satisfaction of the Executive Officer to exhibit smoke opacity greater than 40 percent or 55 percent respectively when in good operating condition and adjusted to the manufacturer's specifications.

Such engine family(s) must comply with any technologically appropriate less stringent opacity standard identified by the Executive Officer based on a review of the data obtained from engines in good operating condition and adjusted to manufacturer's specifications.

(2) The Executive Officer shall exempt from subsections (a)(1) and (2) any 1991 and earlier model-year heavy-duty diesel engines that are equipped with carryover add-on aftermarket turbocharger kits approved by the ARB, and are shown by the kit or engine manufacturer to the satisfaction of the Executive Officer to exhibit smoke opacity greater than 40 percent or 55 percent respectively when in good operating condition and adjusted to manufacturer's specifications. Such engines must comply with any technologically appropriate less stringent opacity standard identified by the Executive Officer based on a review of the data obtained from engines in good operating condition and adjusted to manufacturer's specifications.

(3) Exemptions previously issued and in effect on January 1, 1996 shall remain in effect under the amendments to this section adopted on March 2, 1998 and effective on May 4, 1998.

(4) A manufacturer seeking an exemption under subsection (b) shall provide the ARB with the engine emissions data needed to exempt the engine family and determine technologically appropriate less stringent opacity standards.

(c) Effect of missing emission control label on applicable standard. When the owner of a heavy-duty diesel-powered vehicle receives a Citation or written notification from the ARB that the emission control label was missing during an inspection, the owner must replace the emission control label and provide the engine number identification to the ARB within 45 days of receipt of the notification in addition to paying applicable penalties under section 2185(a)(3). If the owner fails to comply with this requirement, it will be conclusively presumed in any subsequent smoke opacity test where the emission control label remains missing that the vehicle is subject to the 40 percent smoke opacity standard in section 2182(a)(1), unless at the time of the subsequent test it is plainly evident from a visual inspection that the vehicle is powered by a pre-1991 model-year engine.

(d) Excessive Smoke. A heavy-duty vehicle has excessive smoke if it fails to comply with the smoke opacity standard applicable under this section 2182.

Note: Authority cited: Sections 39600, 39601, 43013 and 43701 and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, 43701, and 44011.6, Health and Safety Code.

§ 2183. Inspection of the Emission Control System on a Heavy-Duty Vehicle.

(a) Heavy-duty diesel-powered vehicles. No heavy-duty diesel-powered vehicle shall operate in California with tampered or defective emission control components. The ARB shall conduct a visual inspection of heavy-duty diesel-powered vehicles to determine whether emission control components have been tampered with or are defective. The inspection shall include, but is not limited to, the following:

- (1) The engine governor.
- (2) Any seals and/or covers protecting the air-fuel ratio adjustments.
- (3) Any fuel injection pump seals and covers.
- (4) The air cleaner and flow restriction indicator.
- (5) The exhaust gas recirculation valve.
- (6) The particulate matter trap system or catalytic converter system, including pipes and valves.
- (7) Related hoses, connectors, brackets, and hardware for these components.
- (8) Engine computer controls, related sensors, and actuators.
- (9) Emission control label (ECL).
- (10) Any other emissions-related components for a particular vehicle/engine as determined from the manufacturer's specifications, emission control label, certification data, or published vehicle parts manuals.

(b) Heavy-duty gasoline-powered vehicles. No heavy-duty gasoline-powered vehicle shall operate in California with tampered or defective emission control components. The ARB shall a conduct a visual inspection of heavy-duty gasoline-powered vehicles to determine whether emission control components have been tampered with or are defective. The inspection shall include, but is not limited to, the following:

- (1) The air injection system.
- (2) The positive crankcase ventilation system.
- (3) The exhaust gas recirculation system.
- (4) The catalytic converter, including pipes and valves.
- (5) The evaporative emission control system.
- (6) Related hoses, connectors, brackets, and hardware for these components.
- (7) Engine computer controls, related sensors, and actuators.
- (8) On-Board Diagnostic (OBD) systems for 1994 and subsequent model year vehicles, if so equipped.
- (9) ECL.
- (10) Any other emissions-related component for a particular vehicle/engine as determined from the manufacturer's specifications, emission control label, certification data, or published vehicle parts manuals.

(c) No 1974 or newer diesel powered heavy-duty commercial vehicle shall operate in California without evidence that, at the time of manufacture, the installed engine met emission standards at least as stringent as applicable federal emission standards for the model year of the engine. The ARB shall base its determination on whether an engine meets the above requirements by inspecting the ECL affixed to the vehicle's engine.

Note: Authority cited: Sections 39600, 39601, 43013 and 43701 and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, 43701, and 44011.6, Health and Safety Code.

#### § 2184. Refusal to Submit to Inspection Procedure.

The refusal by an owner or driver of a vehicle to submit to the test procedure in section 2182 or to the emission control system inspection in section 2183 constitutes a failure of the test procedure or inspection, unless the driver is cited by the California Highway Patrol for a violation of California Vehicle Code section 2813.

Note: Authority cited: Sections 39600, 39601, 43013 and 43701 and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, 43701, and 44011.6, Health and Safety Code. Sections 305, 505 and 2813, Vehicle Code.

§ 2185. Civil Penalty Schedule.

(a) The owner of a heavy-duty vehicle that fails the test procedure or the emission controls system inspection, including by refusal to submit, is subject to the following penalty schedule:

(1) Heavy-Duty Vehicle Opacity and Tampering Penalties for Violating Sections 2182 and 2183(a) and (b), Except for Violations Involving a Tampered ECL.

(A) Except as provided below, the owner of a heavy-duty vehicle, that is cited for the first time pursuant to section 2182 or 2183 (a) and (b), other than for a tampered ECL, and for which demonstration of correction is provided and payment is made within 45 days from personal or certified mail receipt of the Citation, shall pay the minimum penalty of \$300. An owner who fails to correct the vehicle or pay the minimum penalty within 45 days of receipt of the Citation shall be assessed a penalty of \$800.

(B) The above penalty shall not apply to the first Citation received by an owner of a school bus, but the owner shall be subject to the penalty provisions of paragraphs 2185(a)(1)(A) and (C) respectively for second and any subsequent violations.

(C) The owner of a vehicle that is cited pursuant to section 2182 or 2183(a) and (b), other than for a tampered ECL, for a second time within a 12 month period for the same vehicle shall within 45 days from personal or certified mail receipt of the current Citation provide demonstration of correction and pay the penalty of \$1,500 and the minimum penalty of \$300 for a total of \$1,800, notwithstanding section 2185(c).

(D) The owner of a heavy-duty vehicle that violates section 2184 by refusing to submit to an inspection conducted under sections 2182 or 2183(a) and (b), including inspections for a tampered ECL, shall be assessed a penalty of \$800 for a first time violation. Subsequent violations of section 2184 for refusing to submit to an inspection under 2182 shall be subject to a penalty of \$1800.

(2) Penalties for a Tampered ECL under section 2183.

(A) An owner of any heavy-duty vehicle shall receive a Citation each time that ARB finds that the vehicle has a tampered ECL. For the first year following the effective date of the amended regulation, February 15, 2007, if the owner demonstrates to ARB that a new label has been affixed to the vehicle's engine within 45-days of receipt of the Citation pursuant to section 2186(a)(3) below, no penalty shall be assessed. An owner of a heavy-duty vehicle who has been issued a Citation for a tampered ECL label and who has failed to have a replacement label affixed to the engine within 45-days of service of the Citation as set forth in section 2186(a)(3) below shall be subject to a \$300 penalty.

(B) After the first year from the effective date of the amended regulation, February 15, 2007, the owner shall receive a citation assessing the owner a \$300 penalty. The fine shall only be waived if, at the time of inspection, the owner provides other documentation from the engine manufacturer or an authorized dealer that demonstrates compliance with section 2183(c), and provided the ECL is replaced pursuant to paragraph (A) above. The documentation shall identify the engine by serial number.

(3) Penalties for Violations of Section 2183(c). The owner of a heavy-duty commercial vehicle that is cited for a violation of section 2183(c) shall be subject to the following penalties:

(A) The owner shall be subject to a penalty of \$500 for each violation.

(B) For the purposes of section 2185(a)(3), it shall be presumed that a heavy-duty commercial vehicle with a tampered ECL is not in compliance with section 2183(c) and is subject to a \$500 penalty for each violation in addition to the penalties provided for under section 2185(a)(2). If the owner demonstrates to ARB that a new ECL has been affixed to the vehicle's engine within 45-days of receipt of the Citation, pursuant to section 2186(a)(3) below, and the ECL demonstrates that the vehicle's engine was designed to at least meet U.S. EPA promulgated emission standards for the year of the engine's manufacture, the penalty for violation of section 2183(c) shall be waived.

(b)(1) No Citation shall be issued to the owner of a heavy-duty vehicle powered by a pre-1991 model-year diesel engine on the basis of a measured smoke opacity exceeding 55 percent but not exceeding 69 percent, unless:

(A) the owner fails to provide a demonstration of correction within 45 days from personal or certified mail receipt of the Notice of Violation, or

(B) a Notice of Violation or Citation has been issued for the vehicle in the preceding 12 months.

(2) The owner of a heavy-duty vehicle that is the subject of a Notice of Violation and for which demonstration of correction is provided within 45 days from personal or certified mail receipt of the Notice of Violation shall not be subject to a penalty for the violation.

(3) The owner of a heavy-duty vehicle that is initially subject to a Notice of Violation, but is cited after a demonstration of correction is not provided within 45 days from personal or certified mail receipt of a Notice of Violation, shall be subject to the penalty in section 2185(a)(1)(A).

(4)(A) Where a heavy-duty vehicle with a pre-1991 engine inspected in accordance with section 2181 has a measured opacity exceeding 55 percent but not exceeding 69 percent within 12 months of issuance of a Notice of Violation for which a demonstration of correction was timely provided within the applicable 45-day period, a Citation shall be issued and the owner shall be subject to the penalty in section 2185(a)(1)(A).

(B) Where a heavy-duty vehicle with a pre-1991 engine inspected in accordance with section 2181 has a measured opacity exceeding 55 percent but not exceeding 69 percent within 12 months of issuance of a Notice of Violation for which a demonstration of correction was not timely provided within the applicable 45-day period, a Citation shall be issued and the owner shall be subject to the penalty in section 2185(a)(1)(C).

(c) If a heavy-duty vehicle fails the test procedure or an emission control system inspection one year or more after the date of its most recent failure, the owner of that vehicle shall be subject to the penalty schedule in section 2185(a)(1)(A) and (a)(1)(C).

(d) When a heavy-duty vehicle is cited after a bona fide change of ownership between non-related persons or entities, the new owner shall not be subject to the penalty schedule in section 2185(a)(1)(A) and (C) if the only Citations issued for the vehicle within the previous 12 months were issued prior to the change of ownership to the new owner.

Note: Authority cited: Sections 39600, 39601, 43013, 43016, 43701 and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010,

39033, 43000, 43013, 43016, 43018, 43701, and 44011.6, Health and Safety Code. Sections 305, 505 and 545, Vehicle Code.

§ 2186. Demonstration of Correction and Post-Repair Test or Inspection.

(a) Demonstration of Correction. The owner must demonstrate correction of the vehicle by submitting to the Air Resources Board documents demonstrating compliance with (1) or (2) or (3):

(1) Where repairs are made at a repair facility, a repair receipt or a completed work order which contains the following information:

(A) Name, address, and phone number of the facility;

(B) Name of mechanic;

(C) Date of the repair;

(D) Description of component replacement(s), repair(s), and/or adjustment(s); and

(E) Itemized list of replaced component(s), including description of part, part number, and cost;

(2) Where the owner makes his or her own repairs outside of a repair facility,

(A) An itemized receipt for the parts used in the repair, and

(B) A statement identifying that date and nature of the repairs made;

(3) The owner of the heavy-duty vehicle who has received a Citation for a tampered ECL shall:

(A) Have the engine manufacturer through its authorized dealer, affix an emission control label identical to the label that was installed on the engine at the time of its original manufacturer;

(B) Provide written verification from the heavy-duty vehicle/engine manufacturer or its authorized dealer that the label has been replaced. The written verification must include identification of the engine serial number.

(b) Statement of Correction. The owner must also submit to the Air Resources Board documents demonstrating compliance with (1) or (2):

(1) Where the Citation or Notice of Violation was based on a failure to meet the opacity standard applicable under section 2182, a smoke test report from a subsequent test showing that the repaired vehicle passed the applicable section 2182 standard along with a statement to that effect made under penalty of perjury by the person who conducted the subsequent test;

(2) Where the Citation or Notice of Violation was based on a failure to pass an emission control system inspection as specified in section 2183, a statement by a person, under penalty of perjury, that the person has reinspected any components identified in the Citation or Notice of Violation as defective or tampered and has determined that these components are correct, are installed, and are in good working order; or

(c) The Air Resources Board shall require an ARB post-repair test or an ARB post-repair inspection whenever:

(1) a submitted repair receipt or work order does not comply with (a) above;

(2) a repair receipt, work order or authorized dealer verification appears to be falsified; or

(3) a second and subsequent failures of the test procedure or an emission control system inspection on the vehicle occur within a one year period.

Note: Authority cited: Sections 39600, 39601, 43013 and 43701 and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, 43701, and 44011.6, Health and Safety Code. Section 505, Vehicle Code.

§ 2187. Vehicles Removed from Service.

(a) Vehicles are subject to removal from service by the Department of the California Highway Patrol if requested by the Air Resources Board inspector, and if one or more uncleared Citations issued under section 2182 exist at the time of inspection.

(b) Upon payment by bank check, money order, or credit card of all unpaid penalties for a vehicle that has been removed from service, the Air Resources Board shall

provide the owner, or designee, a release form for presentation to the Department of the California Highway Patrol.

(c) The release of the vehicle shall be subject to the condition that it be repaired and post-repair tested or inspected within 15 days.

Note: Authority cited: Sections 39600, 39601, 43013 and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, and 44011.6, Health and Safety Code. Sections 505, Vehicle Code.

#### § 2188. Contesting a Citation.

The owner of a vehicle cited under these regulations may request a hearing pursuant to section 60075.1 et seq., title 17, California Code of Regulations.

Note: Authority cited: Sections 39600, 39601, 43013 and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, 43701 and 44011.6, Health and Safety Code.

#### § 2189. Severability of Provisions.

If any subsection, paragraph, subparagraph, sentence, clause, phrase, or portion of this Chapter is, for any reason, held invalid, unconstitutional, or unenforceable by any court of competent jurisdiction, such portion shall be deemed as a separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions of the regulation.

Note: Authority cited: Sections 39600, 39601, 43013 and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, 43701 and 44011.6, Health and Safety Code.

TITLE 13. MOTOR VEHICLES  
DIVISION 3. AIR RESOURCES BOARD  
CHAPTER 3.6. PERIODIC SMOKE INSPECTIONS OF HEAVY-DUTY  
DIESEL-POWERED VEHICLES

§ 2190. Vehicles Subject to the Periodic Smoke Inspection Requirements.

These regulations shall be applicable as follows:

(a) Except as provided in subsections (b), (c), (d), (e), (f) and (g), the requirements of this chapter apply to all heavy-duty diesel-powered vehicles with gross vehicle weight ratings greater than 6,000 pounds which operate on the streets or highways within the State of California and diesel vehicles 1998 model year and newer with gross vehicle weight ratings of 6,000 to 14,000 pounds which are registered in areas of California not designated for the biennial smog check program.

(b) Heavy-duty diesel-powered vehicles which are not part of a fleet or are employed exclusively for personal use are excluded from the requirements of this chapter.

(c) Heavy-duty diesel-powered vehicles which are registered under the International Registration Plan as authorized by Article 4 (commencing with section 8050), Chapter 4, Division 3 of the Vehicle Code and which have established a base state other than California (non-California based vehicles) are excluded from the requirements of this chapter.

(d) Heavy-duty diesel-powered vehicles which operate in California under the terms of Interstate Reciprocity Agreements as authorized by Article 3 (commencing with section 8000), Chapter 4, Division 3 of the Vehicle Code and which belong to fleets that are not based in California are excluded from the requirements of this chapter.

(e) Heavy-duty diesel-powered vehicles operating in California under the terms of any other apportioned registration, reciprocity, or bilateral prorate registration agreement between California and other jurisdictions and which belong to fleets that are not based in California are excluded from the requirements of this chapter.

(f) Heavy-duty diesel-powered vehicles operating in California under short-term vehicle registrations or permits of 90 days or less (including but not limited to 90-day temporary registrations and 4-day permits under Vehicle Code section 4004) are excluded from the requirements of this chapter.

(g) Diesel vehicles 1998 model year and newer with gross vehicle weight ratings of 6,000 to 14,000 pounds that are registered within an area designated for biennial smog check program coverage are exempt from the Periodic Smoke Inspection Program (PSIP) requirements; however, if the vehicle is registered in areas of California designated for smog check inspections only upon initial registration in this state or during change of ownership, then the requirements of this chapter shall apply on a biennial basis as determined by the last digit of the Vehicle Identification Number (VIN). VIN's ending with an even digit would be subject to the PSIP in even calendar years (2010, 2012, 2014 . . .) and VIN's ending with an odd number would be subject to the PSIP in odd calendar years (2011, 2013, 2015 . . .).

Note: Authority cited: Sections 39600, 39601 and 43701(a), Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43018, 43701(a), 44011 and 44011.6, Health and Safety Code.

#### § 2191. Definitions.

(a) The definitions of this section supplement and are governed by the definitions set forth in Chapter 2 (commencing with Section 39010), Part 1, Division 26 of the Health and Safety Code. The provisions of this chapter shall also be governed by the definitions set forth in section 2180.1, Title 13, California Code of Regulations including the following modifications:

- (1) "Fleet" means any group of 2 or more heavy-duty diesel-powered vehicles which are owned or operated by the same agency or entity.
- (2) "Test opacity" means the opacity of smoke from a vehicle when measured in accordance section 2193(e).

Note: Authority cited: Sections 39600, 39601 and 43701(a), Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43018, 43701(a), and 44011.6, Health and Safety Code.

#### § 2192. Vehicle Inspection Responsibilities.

(a) The owner of a heavy-duty diesel-powered vehicle subject to the requirements of this chapter shall do all of the following:

- (1) Test the vehicle for excessive smoke emissions periodically according to the inspection intervals specified in section 2193(a), (b), and (c).
- (2) Measure the smoke emissions for each test using the test procedure specified in section 2193(e).
- (3) Record the smoke test opacity levels and other required test information as specified in section 2194.
- (4) Have the vehicle repaired if it exceeds the applicable smoke opacity standard specified in section 2193(e).
- (5) Record the vehicle repair information as specified in section 2194.
- (6) Conduct a post-repair smoke test to determine if the vehicle complies with the applicable smoke opacity standard.
- (7) Record the post-repair smoke test results as specified in section 2194.
- (8) If the vehicle does not comply with the applicable smoke opacity standard after the test required by section 2192(a)(7), make additional repairs to achieve compliance, and record the smoke test results as specified in section 2194.
- (9) Keep the records specified in section 2194 for two years after the date of inspection.
- (10) Permit an Air Resources Board inspector to review the inspection records specified in section 2194 at owner/operator designated fleet locations by appointment.

Note: Authority cited: Sections 39600, 39601 and 43701(a), Health and Safety Code. Reference: Sections 39002, 39003, 39033, 43000, 43016, 43018, 43701(a), and 44011.6, Health and Safety Code.

#### § 2193. Smoke Opacity Inspection Intervals, Standards, and Test Procedures.

(a) Initial phase-in. Vehicles which are subject to the requirements of this chapter on the operative date of these regulations shall be tested for smoke opacity (and repaired if the applicable smoke opacity standard is exceeded) in accordance with the requirements of section 2192 pursuant to the applicable following schedule:

(1) Fleets of five or more vehicles subject to this chapter:

(A) At least 25 percent of the fleet's vehicles within 180 calendar days of the effective date of these regulations;

(B) At least 50 percent of the fleet's vehicles within 270 calendar days of the effective date of these regulations;

(C) At least 75 percent of the fleet's vehicles within 365 calendar days of the effective date of these regulations; and

(D) The fleet's remaining vehicles no later than 455 calendar days after the effective date of these regulations.

(2) For fleets of 2 to 4 vehicles, at least one vehicle must be tested in the initial 180 day period, and in each subsequent 90 calendar day period, until all vehicles in the fleet have been tested.

(b) New fleets. Fleets which first become subject to the requirements of this chapter subsequent to the effective date of these regulations must be tested in accordance with section 2192 within the applicable time intervals reflected in subsection (a) above, beginning on the date the fleet becomes subject to these regulations.

(c) Annual testing. Once a vehicle subject to the requirements of this chapter has been tested in accordance with subsection (a) or (b), or has been acquired by a fleet owner after the effective date of these regulations, the vehicle must periodically be tested for smoke opacity (and repaired if the applicable smoke opacity standard is exceeded) in accordance with the requirements of section 2192 within 12 months of the previous test conducted under this section 2193.

(d) Exemption for vehicles powered by 1994 or subsequent model-year engines. Any heavy-duty vehicle powered by a 1994 or subsequent model-year engine is exempt from the testing requirements of this section until January 1 of the calendar year that is four years after the model year of the engine, and is to be treated as having been acquired by the owner on that January 1. For example, 1995 model-year engine will be exempt until January 1, 1999.

(e) Smoke opacity standards and test procedures.

(1) Except as otherwise provided in subsection (e)(2) below, the smoke opacity standards are those specified in section 2182, Title 13, California Code of Regulations. The smoke opacity test procedures are those set forth in the Society of Automotive Engineers (SAE) Recommended Practice SAE J1667 “Snap-Acceleration Smoke Test Procedure for Heavy-Duty Diesel Powered Vehicles,” as issued February 1996 ( “1996-02”), which is incorporated herein by reference.

(2) Prior to July 1, 1999, if a repair facility is not equipped with an operable SAE J1667 smokemeter, vehicles may be tested at the repair facility in accordance with the smoke opacity test procedures and opacity standards set forth in section (e)(3). These are the test procedures and opacity standards originally established for the heavy-duty diesel vehicle roadside inspection program in 1991.

(3) Optional smoke opacity test procedures and standards prior to July 1, 1999.

(A) Standards.

1. The maximum smoke opacity standard for a 1991 or subsequent model-year heavy-duty diesel-powered vehicle with a Federal peak smoke engine certification level of 35 percent peak opacity or less is 40 percent when tested in accordance with section 2193(e)(3)(B) and (C).

2. The maximum smoke opacity standard for any other heavy-duty diesel-powered vehicle is 55 percent when tested in accordance with section 2193(e)(3)(B) and (C).

3. The above standards do not apply to an engine exempted under section 2182(b).

(B) Equipment. The smoke opacity measurement equipment shall consist of a light extinction type smokemeter which includes an optical detection unit, a control/indicator unit, and a strip chart recorder.

1. The smokemeter shall comply with the specifications provided in the Society of Automotive Engineers (SAE) procedure J1243, “Diesel Emission Production Audit Test Procedure,” May 1988, which is incorporated herein by reference, section 7.4 and shall be calibrated according to specifications in SAE procedure J1243, section 8.2.

2. The strip chart recorder shall comply with specifications in SAE procedure J1243, section 7.5, subsections 1-4 (May 1988).

(C) Procedure. The test procedure shall consist of preparation, preconditioning, and test phases:

1. In the preparation phase, the vehicle shall be placed at rest, the transmission shall be placed in neutral, and the vehicle wheels shall be properly restrained to prevent any rolling motion.
2. In the preconditioning phase, the vehicle shall be put through a snap-idle cycle two or more times until two successive measured smoke levels are within ten (10) opacity percent of each other. The smokemeter shall be rechecked prior to the preconditioning sequence to determine that its zero and span setting are adjusted according to specifications in SAE procedure J1243, section 8.1 (May 1988).
3. In the test procedure phase, the vehicle shall be put through the snap-idle cycle three times.
4. The opacity shall be measured during the preconditioning and test phases with a smokemeter and shall be recorded continuously on the chart recorder during each snap-idle cycle. The maximum instantaneous value recorded by the chart recorder shall be the opacity reading.
5. The test opacity to determine the compliance with (A)1. and (A)2. above shall be the average of the two meter readings with the least difference in opacity values. If all three readings have successive equivalent differences between them, the test opacity shall be the average of the three readings.

Note: Authority cited: Sections 39600, 39601, 43013 and 43701(a), Health and Safety Code. Reference: Sections 39002, 39003, 39033, 43000, 43013, 43018, 43701(a), and 44011.6, Health and Safety Code.

#### § 2194. Record Keeping Requirements.

(a) The owner of a vehicle subject to the requirements of this chapter shall record the following information when performing the smoke opacity testing:

- (1) The brand name and model of the opacity meter.
- (2) The dates of last calibration of the opacity meter and chart recorder.
- (3) The name of the smoke meter operator who conducted the test.

- (4) The name and address of the contracted smoke test facility or vehicle repair facility that conducted the test (if applicable).
- (5) The applicable smoke opacity standard for the tested vehicle.
- (6) Vehicle identification number, vehicle's engine year, engine make, and engine model, and test date. Fleet designated vehicle identification numbers are also acceptable.
- (7) The initial smoke test opacity levels (for three successive test readings).
- (8) An indication of whether the vehicle passed or failed the initial smoke test.
- (9) The post-repair test date.
- (10) The post-repair smoke test opacity levels (for three successive test readings).
- (11) An indication of whether the vehicle passed or failed the post-repair smoke test.
- (12) For vehicles that have failed the smoke test and have been repaired, the vehicle repair information specified in section 2186(a), Title 13, California Code of Regulations.

Note: Authority cited: Sections 39600, 39601 and 43701, Health and Safety Code. Reference: Sections 39002, 39003, 39033, 43000, 43018, 43701, and 44011.6, Health and Safety Code.