APPENDIX A

PROPOSED REGULATION ORDER

PROPOSED REGULATION ORDER

Add the following section of title 13, California Code of Regulations, to read as set forth on the following pages:

| Section 2011 | Software Upgrade for 1993 through 1998 Model | |
|--------------|--|--|
| | Heavy-Duty Trucks | |

Amend the following sections of title 13, California Code of Regulations, to read as set forth on the following pages:

| Section 2180.1 | Heavy-Duty Diesel Smoke Emission Testing, and Heavy-Duty Vehicle Emission Control System |
|----------------|--|
| | Inspections, Definitions |
| Section 2181 | Heavy-Duty Diesel Smoke Emission Testing, and |
| 00000112101 | Heavy-Duty Vehicle Emission Control System |
| | Inspections, Responsibilities of the Driver and |
| | Inspector During the Inspection Procedure |
| Section 2184 | Heavy-Duty Diesel Smoke Emission Testing, and |
| | Heavy-Duty Vehicle Emission Control System |
| | Inspections, Refusal to Submit to Inspection |
| | Procedure |
| Section 2185 | Heavy-Duty Diesel Smoke Emission Testing, and |
| | Heavy-Duty Vehicle Emission Control System |
| | Inspections, Civil Penalty Schedule |
| Section 2186 | Heavy-Duty Diesel Smoke Emission Testing, and |
| | Heavy-Duty Vehicle Emission Control System |
| | Inspections, Demonstration of Correction and |
| 0 (; 0400 | Post-Repair Test or Inspection |
| Section 2192 | Periodic Smoke Inspections of Heavy-Duty Diesel- |
| | Powered Vehicles, Vehicle Inspection |
| 2 11 2121 | Responsibilities |
| Section 2194 | Periodic Smoke Inspections of Heavy-Duty Diesel- |
| | Powered Vehicles, Record Keeping Requirements |

Note: The proposed regulatory amendments are shown in <u>underline</u> to indicate additions to the text and strikeout to indicate deletions.

Adopt new section 2011, in new Article 3.5 – Installation of Motor Vehicle Pollution Control Devices (Heavy Duty Motor Vehicles), title 13, California Code of Regulations to read as follows:

(Note: the entire text of section 2011 as set forth below is new language proposed to be added to the California Code of Regulations.)

§ 2011. Software Upgrade for 1993 through 1998 Model Year Heavy-Duty Trucks.

- (a) Applicability. This section 2011 applies to Low NOx Rebuild Engines, as defined, operating in the State of California.
- (b) Definitions. The definitions in section 1900 (b), Chapter 1, title 13 of the California Code of Regulations apply, with the following additions:
 - (1) "Low NOx Rebuild Kit" means a software and/or minor hardware upgrade that results in lower emissions of oxides of nitrogen (NOx) when installed on the engine control module of heavy-duty diesel engines requiring such kits. Such engines are identified in plans implementing a Low NOx Rebuild Program under both Heavy Duty Diesel Engine Settlement Agreements with California and Consent Decrees with the United States Environmental Protection Agency, and are listed in (b)(2). The California Settlement Agreements and federal Consent Decrees are identified in title 13, California Code of Regulations, section 1956.8 (a)(2)(A), footnote 1.
 - (2) "Low NOx Rebuild Engine" means a 1993 through 1998 model year heavy-duty diesel engine for which a Low NOx Rebuild Kit must be available for installation. The complete list of Low NOx Rebuild Engines is:

| Low NOx Rebuild Engines | | | |
|-------------------------|--------------|--|--|
| Make and Year | Engine Model | Notes | |
| Caterpillar 1993 – 1998 | 3406E | Engine Serial Number (ESN) 5EK05767 and up | |
| Caterpillar 1993 – 1998 | 3406E | ESN: 6TS00097 and up | |
| Caterpillar 1993 – 1998 | 3406E | ESN: 1LW00001 through 1LW33262 | |
| Caterpillar 1993 – 1998 | 3406E | ESN: Reman 4AS00001 through 4AS00385 | |
| Caterpillar 1993 – 1998 | 3126 | ESN: 1WM00210 through 1WM26819 | |
| Caterpillar 1993 – 1998 | 3126 | ESN: 4ES000226 through 4ES00454 | |
| Caterpillar 1993 – 1998 | 3126 | ESN: Reman 6RW00001 and up | |
| Caterpillar 1993 – 1998 | 3126B | ESN: 7AS00001 through 7AS37588 | |
| Caterpillar 1993 – 1998 | 3116 | ESN: 8WL00297 through 8WL07351 | |
| Caterpillar 1993 – 1998 | 3176B | ESN: 9CK00647 through 9CK32795 | |
| Caterpillar 1993 – 1998 | 3176B | ESN: Reman 3LZ00001 and up | |
| Caterpillar 1993 – 1998 | C-10 | ESN: 2PN01000 through 2PN07278 | |
| Caterpillar 1993 – 1998 | C-10 | ESN: 8YS00449 through 8YS07060 | |
| Caterpillar 1993 – 1998 | C-10 | ESN: Reman AKB00001 and up | |
| Caterpillar 1993 – 1998 | C-12 | ESN: 1YN01200 through 1YN12844 | |
| Caterpillar 1993 – 1998 | C-12 | ESN: 9NS00372 through 9NS19786 | |
| Caterpillar 1993 – 1998 | C-12 | ESN: Reman ALS00001 and up | |
| Cummins 1993 – 1998 | ISB | Critical Parts List Number (CPL) 2446 through 2451 | |

| Cummins 1993 – 1998 N14 CPL 1573, 1574, 1807, 1809, 1844, 1987, 2025, 2026, 2027, 2389, 2390, and 2391 Detroit Diesel Corp. 1994 – 1998 6067-GK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-GK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-TK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-TK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-PK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-PK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-WK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-WK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 EM7-200 ESN 4B through 8R Mack | nmins 1993 – 1998 | M11 | CPL 1855, 1856, 1857, 2036, 2037, 2370, and 2371 |
|--|-------------------------------|-----------------|--|
| Detroit Diesel Corp. 1994 – 1998 6067-GK60 ESN 6R157655 through 6R472018 | nmins 1993 – 1998 | N14 | |
| Detroit Diesel Corp. 1994 – 1998 6067-GK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-TK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-TK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-PK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-PK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-WK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-WK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK28 ESN 6R157655 through 6R472018 Mack 1994 – 1998 EM7-275 ESN 4B through 8R Mack 1994 – 1998 E7-300 ESN 4B through 8R Mack 1994 – 1998 E7-310/330 ESN 4B through 8R Mack 1994 – 1998 E7-330/350 ESN 4B through 8R | | | |
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| Detroit Diesel Corp. 1994 – 1998 6067-TK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-TK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-PK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-PK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-WK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK28 ESN 6R157655 through 6R472018 Mack 1994 – 1998 EM7-275 ESN 4B through 8R Mack 1994 – 1998 E7-300 ESN 4B through 8R Mack 1994 – 1998 E7-310/330 ESN 4B through 8R Mack 1994 – 1998 E7-330/350 ESN 4B through 8R Mack 1994 – 1998 E7-350 ESN 4B through 8R | roit Diesel Corp. 1994 – 1998 | 6067-GK28 | ESN 6R157655 through 6R472018 |
| Detroit Diesel Corp. 1994 – 1998 6067-TK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-PK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-PK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-WK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-WK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK28 ESN 6R157655 through 6R472018 Mack 1994 – 1998 EM7-275 ESN 4B through 8R Mack 1994 – 1998 E7-300 ESN 4B through 8R Mack 1994 – 1998 E7-310/330 ESN 4B through 8R Mack 1994 – 1998 E7-330/350 ESN 4B through 8R Mack 1994 – 1998 E7-350 ESN 4B through 8R | | 6067-TK60 | ESN 6R157655 through 6R472018 |
| Detroit Diesel Corp. 1994 – 1998 6067-PK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-PK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-WK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-WK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK28 ESN 6R157655 through 6R472018 Mack 1994 – 1998 EM7-275 ESN 4B through 8R Mack 1994 – 1998 EM7-300 ESN 4B through 8R Mack 1994 – 1998 E7-300 ESN 4B through 8R Mack 1994 – 1998 E7-330/330 ESN 4B through 8R Mack 1994 – 1998 E7-330/350 ESN 4B through 8R Mack 1994 – 1998 E7-350 ESN 4B through 8R | roit Diesel Corp. 1994 – 1998 | 6067-TK28 | |
| Detroit Diesel Corp. 1994 – 1998 6067-PK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-WK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-WK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 EM7-275 ESN 4B through 8R Mack 1994 – 1998 EM7-300 ESN 4B through 8R Mack 1994 – 1998 E7-300 ESN 4B through 8R Mack 1994 – 1998 E7-310/330 ESN 4B through 8R Mack 1994 – 1998 E7-330/350 ESN 4B through 8R Mack 1994 – 1998 E7-330/350 ESN 4B through 8R Mack 1994 – 1998 E7-350 ESN 4B through 8R Mack 1994 – 1998 E7-350 ESN 4B through 8R | roit Diesel Corp. 1994 – 1998 | 6067-PK60 | |
| Detroit Diesel Corp. 1994 – 1998 6067-WK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-WK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-SK28 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK60 ESN 6R157655 through 6R472018 Detroit Diesel Corp. 1994 – 1998 6067-EK28 ESN 6R157655 through 6R472018 Mack 1994 – 1998 EM7-275 ESN 4B through 8R Mack 1994 – 1998 EM7-300 ESN 4B through 8R Mack 1994 – 1998 E7-300 ESN 4B through 8R Mack 1994 – 1998 E7-310/330 ESN 4B through 8R Mack 1994 – 1998 E7-330/350 ESN 4B through 8R Mack 1994 – 1998 E7-350 ESN 4B through 8R Mack 1994 – 1998 E7-350 ESN 4B through 8R | | 6067-PK28 | |
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| Detroit Diesel Corp. 1994 – 1998 6067-EK28 ESN 6R157655 through 6R472018 Mack 1994 – 1998 EM7-275 ESN 4B through 8R Mack 1994 – 1998 EM7-300 ESN 4B through 8R Mack 1994 – 1998 E7-300 ESN 4B through 8R Mack 1994 – 1998 E7-310/330 ESN 4B through 8R Mack 1994 – 1998 E7-330/350 ESN 4B through 8R Mack 1994 – 1998 E7-350 ESN 4B through 8R Mack 1994 – 1998 E7-350 ESN 4B through 8R | | | |
| Mack 1994 – 1998 EM7-275 ESN 4B through 8R Mack 1994 – 1998 EM7-300 ESN 4B through 8R Mack 1994 – 1998 E7-300 ESN 4B through 8R Mack 1994 – 1998 E7-310/330 ESN 4B through 8R Mack 1994 – 1998 E7-330/350 ESN 4B through 8R Mack 1994 – 1998 E7-350 ESN 4B through 8R | | | |
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| Mack 1994 – 1998 E7-330/350 ESN 4B through 8R Mack 1994 – 1998 E7-350 ESN 4B through 8R | | | |
| Mack 1994 – 1998 E7-350 ESN 4B through 8R | | | |
| | | | |
| Mack 1994 – 1998 E7-355/380 ESN 4B through 8R | | E7-355/380 | ESN 4B through 8R |
| Mack 1994 – 1998 E7-375 ESN 4B through 8R | | | |
| Mack 1994 – 1998 E7-400 ESN 4B through 8R | | | |
| Mack 1994 – 1998 E7-427 ESN 4B through 8R | | | |
| Mack 1994 – 1998 E7-454 ESN 4B through 8R | | | |
| Mack 1994 – 1998 E7-460 ESN 4B through 8R | | | |
| Renault 1993 –1998 MIDR06.02.26 | | | |
| Navistar/International 1998 DT 466E Engine Family Number (EFN) WNVXH0466FNA | | | Engine Family Number (EFN) WNVXH0466FNA |
| Navistar/International 1998 DT 466E EFN: WNVXH0466CCB, WNVXH0466FNC | | | |
| Navistar/International 1998 DT 466E EFN: WNVXH0466CCD | | | |
| Navistar/International 1998 530E EFN: WNVXH0530FNA, WNVXH0530CCB | /istar/International 1998 | | |
| Navistar/International 1998 530E EFN: WNVXH0530FNC, WNVXH0530CCD | | | |
| Volvo 1994 – 1998 | | VE D12 | |
| Volvo 1994 – 1998 | | | |
| Volvo 1994 – 1998 | | | |
| Volvo 1994 – 1998 | | | |
| Volvo 1994 – 1998 | | | |
| Volvo 1994 – 1998 | vo 1994 – 1998 | VE D12B-425 EPG | EFNa: WVTXH12.150S |
| Volvo 1994 – 1998 | | | |
| Volvo 1994 – 1998 | | | |
| Volvo 1994 – 1998 | | | |
| Volvo 1994 – 1998 | | | |
| Volvo 1994 – 1998 | | | |

(c) Requirements.

(1) On or after the applicable implementation date in subsection (d), no person may operate a vehicle propelled by a Low NOx Rebuild Engine on highways within the State of California without a Low NOx Rebuild Kit installed that meets the following emission requirements:

| Software Upgrade Requirements | | | | | |
|-------------------------------|--------------|------------------------|----------|--------------|---------------|
| Option A (1994 – 1998) | | Option B (1993 – 1998) | | | |
| | MHDDE | HHDDE | | MHDDE | HHDDE |
| Euro III | 6.0 g/bhp-hr | 7.0 g/bhp-hr | Euro III | 6.5 g/bhp-hr | 7.5 g/bhp-hr |
| NTE | 7.5 g/bhp-hr | 8.75 g/bhp-hr | NTE | 8.1 g/bhp-hr | 9.38 g/bhp-hr |

| Manufacturer Option for Software Upgrade | | | |
|--|----------------|-------------|--|
| Company | Option | MY Year | |
| Caterpillar | В | 1993 - 1998 | |
| Cummins | В | 1993 - 1998 | |
| Detroit Diesel | Α | 1994 – 1998 | |
| Corporation | | | |
| Mack | Α | 1994 – 1998 | |
| Navistar | not applicable | 1998 (only) | |
| Volvo | Α | 1994 – 1998 | |
| Renault | Α | 1994 - 1998 | |

- (2) A Low NOx Rebuild Engine manufacturer's authorized dealers, distributors, repair facilities, or rebuilders must provide a Low NOx Rebuild Kit to the vehicle owner or operator upon request.
- (3) A Low NOx Rebuild Engine manufacturer's authorized dealers, distributors, repair facilities, or rebuilders must not install on a Low NOx Rebuild Engine any engine software containing electronic control strategies, other than a Low NOx Rebuild Kit.
- (4) Any person installing a Low NOx Rebuild Kit must affix a label to each engine at time of installation. The label must do all of the following:
 - (A) The label must contain an identifiable characteristic allowing the ARB to determine whether a Low NOx Rebuild Engine has had the appropriate Low NOx Rebuild Kit installed. This identifiable characteristic may be a unique part number or other marking on the engine control module;
 - (B) The label must contain a statement with appropriate blank spaces for the individual performing the installation to indicate when and by whom the Low NOx Rebuild Kit was installed on the engine;
 - (C) The label must be placed in such a location as approved by the ARB consistent with California law;

- (D) The label must be fabricated of a material suitable for the location in which it is installed: and
- (E) The label must not be readily removable intact.
- (5) A vehicle owner cited for violating (c)(1) of this section must submit proof of Low NOx Rebuild Kit installation, as identified in title 13, CCR, section 2186, within 45 days of personal or certified receipt of the citation.
- (d) Implementation Dates.
 - (1) 1993 and 1994 model year Low NOx Rebuild Engines must have a Low NOx Rebuild Kit installed by April 30, 2004.
 - (2) 1995 and 1996 model year Low NOx Rebuild Engines must have a Low NOx Rebuild Kit installed by August 31, 2004.
 - (3) 1997 and 1998 model year Low NOx Rebuild Engines must have a Low NOx Rebuild Kit installed by December 31, 2004.

NOTE: Authority Cited: Sections 39600, 39601, 43013,43018, and 43701, Health and Safety Code. Reference: Sections 39001, 39003, 43000, 43013, and 43018, Health and Safety Code.

Amend section 2180.1, title 13, California Code of Regulations to read as follows:

§ 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) "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.
 - (2) "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.
 - (3) "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.
 - (4) "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.
 - (5) "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.
 - (6) "Demonstration of correction" means the documents identified in section 2186(a) or successful completion of an ARB post-repair test or inspection.
 - (7) "Driver" has the same meaning as defined in California Vehicle Code section 305.
 - (8) "Emission control label" 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 (40 CFR), section 86.085-35 or 40 CFR Part 86, Subpart A.
 - (9) "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.
 - (10) "Executive Officer" means the Executive Officer of the Air Resources Board or his or her designee.

- (11) "Fleet" means two (2) or more heavy-duty vehicles.
- (12) "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.
- (13) "Inspection procedure" means the test procedure specified in section 2182 and the emission control system inspection specified in section 2183.
- (14) "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.
- (15) "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.
- (16) "Issuance" means the act of mailing or personally delivering a citation to the owner.
- (17) "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(I).
- (18) "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.
- (19) "Officer" means a uniformed member of the Department of the California Highway Patrol.
- (20) "Opacity" means the percentage of light obstructed from passage through an exhaust smoke plume.
- (21) "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.

- (22) "Removal from service" means the towing and storage of a vehicle under the auspices of the Department of the California Highway Patrol.
- (23) "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.
- (24) "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.
- (25) <u>"Scan tool evaluation" means using an electronic device to determine if a Low NOx Rebuild Kit, as defined in section 2011(b)(1), is installed.</u>
- (256) "Schoolbus" means the same as defined in California Vehicle Code section 545.
- (26<u>7</u>) "Smokemeter" means a detection device used to measure the opacity for smoke in percent opacity.
- (278) "Tampered" means missing, modified, or disconnected.
- (28<u>9</u>) "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, <u>43701</u>, and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, <u>43701</u>, and 44011.6, Health and Safety Code. Section 505, Vehicle Code.

Amend section 2181, title 13, California Code of Regulations to read as follows:

§ 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) Perform the test procedure upon request by an inspector.
 - (3) Open the vehicle door so that the inspector can observe the driver depress the accelerator pedal.
 - (4) Permit an emission control system inspection upon the request of the inspector.
 - (5) Permit a scan tool evaluation upon request of the inspector.
 - (56) Sign the citation or notice of violation to acknowledge its receipt and 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:
 - (1) Drive the vehicle to the inspection site upon direction of an officer.
 - (2) Permit an emission control system inspection upon request of the inspector.
 - (3) Sign the citation to acknowledge its receipt.
- (c) Inspector. The inspector in performing the inspection procedure 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 copy of the citation to the driver of a vehicle that fails the test procedure or the emission control system inspection.
- (4) Issue a copy of the 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 30 days of written notification by 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.
- (6) Issue a copy of the citation to the driver of a 1993-1998 heavy-duty diesel-powered vehicle with a Low NOx Rebuild Engine upon determining by scan tool evaluation a violation of section 2011 (c)(1), title 13, California Code of Regulations.

NOTE: Authority Cited: Sections 39600, 39601, 43013, <u>43701</u>, and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, <u>43701</u>, and 44011.6, Health and Safety Code. Section 305, Vehicle Code.

Amend section 2184, title 13, California Code of Regulations to read as follows:

§ 2184. Refusal to Submit to Inspection Procedure.

The refusal by an owner or driver of a vehicle to submit to the <u>scan tool</u> <u>evaluation defined in section 2180.1, the</u> test procedure in section 2182, or to the emission control system inspection in section 2183 constitutes a failure of the <u>evaluation</u>, 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, <u>43701</u>, and 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, <u>43701</u>, and 44011.6, Health and Safety Code. Sections 305, 505, and 2813, Vehicle Code.

Amend section 2185, title 13, California Code of Regulations to read as follows:

§ 2185. Civil Penalty Schedule.

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

(1) Scan Tool Evaluations

- (A) The owner of a vehicle that is cited for a violation of section

 2011(c)(1), 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 a civil penalty of \$300.

 Schoolbuses registered in California are exempt from the \$300 civil
 penalty for the first violation only.
- (B) A vehicle owner who violates section 2011(c)(5) shall pay a civil penalty of \$500 in addition to the civil penalty for the violation of section 2011(c)(1).
- (C) The owner of a vehicle cited for a violation of section 2184 for refusing to submit to a scan tool evaluation shall be subject to a civil penalty of \$500.
- (42) The owner of a vehicle, other than a schoolbus, that is cited for the first time pursuant to section 2182 or 2183 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.
- (23) The owner of a vehicle that is cited for the first time pursuant to section 2184 for a refusal not pertaining to a scan tool evaluation, or that is cited for the first time pursuant to section 2182 or 2183 and for which demonstration of correction is not provided within 45 days from personal mail or certified mail receipt of the citation shall provide demonstration of correction and pay the minimum penalty of \$300 and the basic penalty of \$500 for a total of \$800. Schoolbuses are exempt from the \$300 minimum penalty for the first violation only.
- (3<u>4</u>) The owner of a vehicle that is cited <u>pursuant to section 2182 or 2183</u> within 12 months from the issuance of the most recent citation for that 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.

- (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 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 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)(2).
 - (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)(2).
 - (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)(3).
- (c) If a 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)(B) and (a)(2).
- (d) When a vehicle is cited after a bona fide change of ownership between non-related persons or entities, the new owner shall be subject to the penalty schedule in section 2185(a)(1) and (2) 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.

(e) An owner who has been cited twice or more for tampered emission controls on the same vehicle shall be subject to the penalty in section 2185(a)(3), notwithstanding section 2185(c).

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 305, 505, and 545, Vehicle Code.

Amend section 2186, title 13, California Code of Regulations to read as follows:

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

- (a) The owner may must demonstrate correction of the vehicle by submitting to the Air Resources Board one of the following documents (1) through (5):
 - (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 the date and nature of the repairs made-;
 - (3) 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.;
 - (4) Where the citation 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 as defective or tampered and has determined that these components are in good working order-; or
 - (5) Where the citation was based on a violation of the Low NOx Rebuild Kit installation requirement as specified in section 2011(c), a statement by a person, under penalty of perjury, that the person has conducted a scan tool evaluation and has determined that the Low NOx Rebuild Kit has been installed.

- (b) In lieu of submitting <u>one of</u> the documents identified under section 2186(a), the owner may demonstrate correction of the vehicle by submitting it to an ARB post-repair test or an ARB post-repair inspection.
- (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 or work order 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, <u>43701</u>, 44011.6, Health and Safety Code. Reference: Sections 39002, 39003, 39010, 39033, 43000, 43013, 43018, <u>43701</u>, and 44011.6, Health and Safety Code. Section 505, Vehicle Code.

Amend section 2192, title 13, California Code of Regulations to read as follows:

§ 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) Ensure that Low NOx Rebuild Kits are installed in 1993 1998 heavy-duty diesel-powered vehicles with Low NOx Rebuild Engines as required by section 2011.
 - (910) Keep the records specified in section 2194 for two years after the date of inspection.
 - (101) 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.

Amend section 2194, title 13, California Code of Regulations to read as follows:

§ 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 brand name and model of the strip chart recorder, if an SAE J1243 type smoke meter is employed.
 - (3) The dates of last calibration of the opacity meter and chart recorder.
 - (4) The name of the smoke meter operator who conducted the test.
 - (5) The name and address of the contracted smoke test facility or vehicle repair facility that conducted the test (if applicable).
 - (6) The applicable smoke opacity standard for the tested vehicle.
 - (7) Vehicle identification number, vehicle's engine year, engine make, and engine model, and test date. Fleet-designated vehicle identification numbers are also acceptable.
 - (8) The initial smoke test opacity levels (for three successive test readings).
 - (9) An indication of whether the vehicle passed or failed the initial smoke test.
 - (10) The post-repair test date.
 - (11) The post-repair smoke test opacity levels (for three successive test readings).
 - (12) An indication of whether the vehicle passed or failed the post-repair smoke test.
 - (13) 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.
- (b) The owner of a vehicle subject to the requirements of this chapter shall record the following information to demonstrate installation of Low NOx Rebuild Kits:
 - (1) A repair receipt or completed work order which contains the following information:

- (A) Name, address, and phone number of the facility performing the installation;
- (B) Name of the person performing the installation;
- (C) Date of the installation;
- (D) Description of Low NOx Rebuild Engine, including engine family name and number, and Low NOx Rebuild Kit installed.

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.