

been certified to meet for any model year the clean-fuel vehicle standards applicable under this part for that model year to clean-fuel vehicles in that class or category.

(July 14, 1955, ch. 360, title II, § 241, as added Pub. L. 101-549, title II, § 229(a), Nov. 15, 1990, 104 Stat. 2511.)

**§ 7582. Requirements applicable to clean-fuel vehicles**

**(a) Promulgation of standards**

Not later than 24 months after November 15, 1990, the Administrator shall promulgate regulations under this part containing clean-fuel vehicle standards for the clean-fuel vehicles specified in this part.

**(b) Other requirements**

Clean-fuel vehicles of up to 8,500 gvwr subject to standards set forth in this part shall comply with all motor vehicle requirements of this subchapter (such as requirements relating to on-board diagnostics, evaporative emissions, etc.) which are applicable to conventional gasoline-fueled vehicles of the same category and model year, except as provided in section 7584 of this title with respect to administration and enforcement, and except to the extent that any such requirement is in conflict with the provisions of this part. Clean-fuel vehicles of 8,500 gvwr or greater subject to standards set forth in this part shall comply with all requirements of this subchapter which are applicable in the case of conventional gasoline-fueled or diesel fueled vehicles of the same category and model year, except as provided in section 7584 of this title with respect to administration and enforcement, and except to the extent that any such requirement is in conflict with the provisions of this part.

**(c) In-use useful life and testing**

(1) In the case of light-duty vehicles and light-duty trucks up to 6,000 lbs gvwr, the useful life for purposes of determining in-use compliance with the standards under section 7583 of this title shall be—

(A) a period of 5 years or 50,000 miles (or the equivalent) whichever first occurs, in the case of standards applicable for purposes of certification at 50,000 miles; and

(B) a period of 10 years or 100,000 miles (or the equivalent) whichever first occurs, in the case of standards applicable for purposes of certification at 100,000 miles, except that in-use testing shall not be done for a period beyond 7 years or 75,000 miles (or the equivalent) whichever first occurs.

(2) In the case of light-duty trucks of more than 6,000 lbs gvwr, the useful life for purposes of determining in-use compliance with the standards under section 7583 of this title shall be—

(A) a period of 5 years or 50,000 miles (or the equivalent) whichever first occurs in the case of standards applicable for purposes of certification at 50,000 miles; and

(B) a period of 11 years or 120,000 miles (or the equivalent) whichever first occurs in the case of standards applicable for purposes of certification at 120,000 miles, except that in-

use testing shall not be done for a period beyond 7 years or 90,000 miles (or the equivalent) whichever first occurs.

(July 14, 1955, ch. 360, title II, § 242, as added Pub. L. 101-549, title II, § 229(a), Nov. 15, 1990, 104 Stat. 2513.)

**§ 7583. Standards for light-duty clean-fuel vehicles**

**(a) Exhaust standards for light-duty vehicles and certain light-duty trucks**

The standards set forth in this subsection shall apply in the case of clean-fuel vehicles which are light-duty trucks of up to 6,000 lbs. gross vehicle weight rating (gvwr) (but not including light-duty trucks of more than 3,750 lbs. loaded vehicle weight (lvw)) or light-duty vehicles:

**(1) Phase I**

Beginning with model year 1996, for the air pollutants specified in the following table, the clean-fuel vehicle standards under this section shall provide that vehicle exhaust emissions shall not exceed the levels specified in the following table:

PHASE I CLEAN FUEL VEHICLE EMISSION STANDARDS FOR LIGHT-DUTY TRUCKS OF UP TO 3,750 LBS. LVW AND UP TO 6,000 LBS. GVWR AND LIGHT-DUTY VEHICLES

| Pollutant              | NMOG  | CO  | NO <sub>x</sub> | PM    | HCHO (formaldehyde) |
|------------------------|-------|-----|-----------------|-------|---------------------|
| 50,000 mile standard.  | 0.125 | 3.4 | 0.4             | ..... | 0.015               |
| 100,000 mile standard. | 0.156 | 4.2 | 0.6             | 0.08* | 0.018               |

Standards are expressed in grams per mile (gpm).

\*Standards for particulates (PM) shall apply only to diesel-fueled vehicles.

In the case of the 50,000 mile standards and the 100,000 mile standards, for purposes of certification, the applicable useful life shall be 50,000 miles or 100,000 miles, respectively.

**(2) Phase II**

Beginning with model year 2001, for air pollutants specified in the following table, the clean-fuel vehicle standards under this section shall provide that vehicle exhaust emissions shall not exceed the levels specified in the following table.

PHASE II CLEAN FUEL VEHICLE EMISSION STANDARDS FOR LIGHT-DUTY TRUCKS OF UP TO 3,750 LBS. LVW AND UP TO 6,000 LBS. GVWR AND LIGHT-DUTY VEHICLES

| Pollutant              | NMOG  | CO  | NO <sub>x</sub> | PM*   | HCHO (formaldehyde) |
|------------------------|-------|-----|-----------------|-------|---------------------|
| 50,000 mile standard.  | 0.075 | 3.4 | 0.2             | ..... | 0.015               |
| 100,000 mile standard. | 0.090 | 4.2 | 0.3             | 0.08  | 0.018               |

Standards are expressed in grams per mile (gpm).

\*Standards for particulates (PM) shall apply only to diesel-fueled vehicles.

In the case of the 50,000 mile standards and the 100,000 mile standards, for purposes of certification, the applicable useful life shall be 50,000 miles or 100,000 miles, respectively.

**(b) Exhaust standards for light-duty trucks of more than 3,750 lbs. LVW and up to 5,750 lbs. LVW and up to 6,000 lbs. GVWR**

The standards set forth in this paragraph<sup>1</sup> shall apply in the case of clean-fuel vehicles which are light-duty trucks of more than 3,750 lbs. loaded vehicle weight (lvw) but not more than 5,750 lbs. lvw and not more than 6,000 lbs. gross weight rating (GVWR):

**(1) Phase I**

Beginning with model year 1996, for the air pollutants specified in the following table, the clean-fuel vehicle standards under this section shall provide that vehicle exhaust emissions shall not exceed the levels specified in the following table.

PHASE I CLEAN FUEL VEHICLE EMISSION STANDARDS FOR LIGHT-DUTY TRUCKS OF MORE THAN 3,750 LBS. AND UP TO 5,750 LBS. LVW AND UP TO 6,000 LBS. GVWR

| Pollutant              | NMOG  | CO  | NO <sub>x</sub> | PM*   | HCHO (formaldehyde) |
|------------------------|-------|-----|-----------------|-------|---------------------|
| 50,000 mile standard.  | 0.160 | 4.4 | 0.7             | ..... | 0.018               |
| 100,000 mile standard. | 0.200 | 5.5 | 0.9             | 0.08  | 0.023               |

Standards are expressed in grams per mile (gpm).  
 \*Standards for particulates (PM) shall apply only to diesel-fueled vehicles.  
 In the case of the 50,000 mile standards and the 100,000 mile standards, for purposes of certification, the applicable useful life shall be 50,000 miles or 100,000 miles, respectively.

**(2) Phase II**

Beginning with model year 2001, for the air pollutants specified in the following table, the clean-fuel vehicle standards under this section shall provide that vehicle exhaust emissions shall not exceed the levels specified in the following table.

PHASE II CLEAN FUEL VEHICLE EMISSION STANDARDS FOR LIGHT-DUTY TRUCKS OF MORE THAN 3,750 LBS. LVW AND UP TO 5,750 LBS. LVW AND UP TO 6,000 LBS. GVWR

| Pollutant              | NMOG  | CO  | NO <sub>x</sub> | PM*   | HCHO (formaldehyde) |
|------------------------|-------|-----|-----------------|-------|---------------------|
| 50,000 mile standard.  | 0.100 | 4.4 | 0.4             | ..... | 0.018               |
| 100,000 mile standard. | 0.130 | 5.5 | 0.5             | 0.08  | 0.023               |

Standards are expressed in grams per mile (gpm).  
 \*Standards for particulates (PM) shall apply only to diesel-fueled vehicles.  
 In the case of the 50,000 mile standards and the 100,000 mile standards, for purposes of certification, the applicable useful life shall be 50,000 miles or 100,000 miles, respectively.

**(c) Exhaust standards for light-duty trucks greater than 6,000 lbs. GVWR**

The standards set forth in this subsection shall apply in the case of clean-fuel vehicles which are light-duty trucks of more than 6,000 lbs. gross weight rating (GVWR) and less than or

equal to 8,500 lbs. GVWR, beginning with model year 1998. For the air pollutants specified in the following table, the clean-fuel vehicle standards under this section shall provide that vehicle exhaust emissions of vehicles within the test weight categories specified in the following table shall not exceed the levels specified in such table.

CLEAN FUEL VEHICLE EMISSION STANDARDS FOR LIGHT DUTY TRUCKS GREATER THAN 6,000 LBS. GVWR

Test Weight Category: Up to 3,750 lbs. tw

| Pollutant              | NMOG  | CO  | NO <sub>x</sub> | PM*   | HCHO (formaldehyde) |
|------------------------|-------|-----|-----------------|-------|---------------------|
| 50,000 mile standard.  | 0.125 | 3.4 | 0.4**           | ..... | 0.015               |
| 120,000 mile standard. | 0.180 | 5.0 | 0.6             | 0.08  | 0.022               |

Test Weight Category: Above 3,750 but not above 5,750 lbs. tw

| Pollutant              | NMOG  | CO  | NO <sub>x</sub> | PM*   | HCHO (formaldehyde) |
|------------------------|-------|-----|-----------------|-------|---------------------|
| 50,000 mile standard.  | 0.160 | 4.4 | 0.7**           | ..... | 0.018               |
| 120,000 mile standard. | 0.230 | 6.4 | 1.0             | 0.10  | 0.027               |

Test Weight Category: Above 5,750 tw but not above 8,500 lbs. gvwr

| Pollutant              | NMOG  | CO  | NO <sub>x</sub> | PM*   | HCHO (formaldehyde) |
|------------------------|-------|-----|-----------------|-------|---------------------|
| 50,000 mile standard.  | 0.195 | 5.0 | 1.1**           | ..... | 0.022               |
| 120,000 mile standard. | 0.280 | 7.3 | 1.5             | 0.12  | 0.032               |

Standards are expressed in grams per mile (gpm).  
 \*Standards for particulates (PM) shall apply only to diesel-fueled vehicles.  
 \*\*Standard not applicable to diesel-fueled vehicles.  
 For the 50,000 mile standards and the 120,000 mile standards set forth in the table, the applicable useful life for purposes of certification shall be 50,000 miles or 120,000 miles, respectively.

**(d) Flexible and dual-fuel vehicles**

**(1) In general**

The Administrator shall establish standards and requirements under this section for the model year 1996 and thereafter for vehicles weighing not more than 8,500 lbs. gvwr which are capable of operating on more than one fuel. Such standards shall require that such vehicles meet the exhaust standards applicable under subsection<sup>2</sup> (a), (b), and (c) for CO, NO<sub>x</sub>, and HCHO, and if appropriate, PM for single-fuel vehicles of the same vehicle category and model year.

**(2) Exhaust NMOG standard for operation on clean alternative fuel**

In addition to standards for the pollutants referred to in paragraph (1), the standards es-

<sup>1</sup> So in original. Probably should be "subsection".

<sup>2</sup> So in original. Probably should be "subsections".

tablished under paragraph (1) shall require that vehicle exhaust emissions of NMOG not exceed the levels (expressed in grams per mile) specified in the tables below when the vehicle is operated on the clean alternative fuel for which such vehicle is certified:

**NMOG STANDARDS FOR FLEXIBLE- AND DUAL-FUELED VEHICLES WHEN OPERATING ON CLEAN ALTERNATIVE FUEL**

**Light-duty Trucks up to 6,000 lbs. GVWR and Light-duty vehicles**

| Vehicle Type   | Column A<br>(50,000 mi.)<br>Standard<br>(gpm) | Column B<br>(100,000 mi.)<br>Standard<br>(gpm) |
|--|---|--|
| Beginning MY 1996:<br>LDT's (0-3,750 lbs. LVW)<br>and light-duty vehicles. | 0.125   | 0.156  |
| LDT's (3,751-5,750 lbs.<br>LVW).   | 0.160   | 0.20   |
| Beginning MY 2001:<br>LDT's (0-3,750 lbs. LVW)<br>and light-duty vehicles. | 0.075   | 0.090  |
| LDT's (3,751-5,750 lbs.<br>LVW).   | 0.100   | 0.130  |

For standards under column A, for purposes of certification under section 7525 of this title, the applicable useful life shall be 50,000 miles.

For standards under column B, for purposes of certification under section 7525 of this title, the applicable useful life shall be 100,000 miles.

**Light-duty Trucks More than 6,000 lbs. GVWR**

| Vehicle Type  | Column A<br>(50,000 mi.)<br>Standard | Column B<br>(120,000 mi.)<br>Standard |
|---|--------------------------------------|---------------------------------------|
| Beginning MY 1998:<br>LDT's (0-3,750 lbs. TW) ..... | 0.125                                | 0.180                                 |
| LDT's (3,751-5,750 lbs. TW)                         | 0.160                                | 0.230                                 |
| LDT's (above 5,750 lbs. TW)                         | 0.195                                | 0.280                                 |

For standards under column A, for purposes of certification under section 7525 of this title, the applicable useful life shall be 50,000 miles.

For standards under column B, for purposes of certification under section 7525 of this title, the applicable useful life shall be 120,000 miles.

**(3) NMOG standard for operation on conventional fuel**

In addition to the standards referred to in paragraph (1), the standards established under paragraph (1) shall require that vehicle exhaust emissions of NMOG not exceed the levels (expressed in grams per mile) specified in the tables below:

**NMOG STANDARDS FOR FLEXIBLE- AND DUAL-FUELED VEHICLES WHEN OPERATING ON CONVENTIONAL FUEL**

**Light-duty Trucks of up to 6,000 lbs. GVWR and Light-duty vehicles**

| Vehicle Type   | Column A<br>(50,000 mi.)<br>Standard<br>(gpm) | Column B<br>(100,000 mi.)<br>Standard<br>(gpm) |
|--|---|--|
| Beginning MY 1996:<br>LDT's (0-3,750 lbs. LVW)<br>and light-duty vehicles. | 0.25  | 0.31   |
| LDT's (3,751-5,750 lbs.<br>LVW).   | 0.32  | 0.40   |

**NMOG STANDARDS FOR FLEXIBLE- AND DUAL-FUELED VEHICLES WHEN OPERATING ON CONVENTIONAL FUEL**

**Light-duty Trucks of up to 6,000 lbs. GVWR and Light-duty vehicles**

| Vehicle Type   | Column A<br>(50,000 mi.)<br>Standard<br>(gpm) | Column B<br>(100,000 mi.)<br>Standard<br>(gpm) |
|--|---|--|
| Beginning MY 2001:<br>LDT's (0-3,750 lbs. LVW)<br>and light-duty vehicles. | 0.125   | 0.156  |
| LDT's (3,751-5,750 lbs.<br>LVW).   | 0.160   | 0.200  |

For standards under column A, for purposes of certification under section 7525 of this title, the applicable useful life shall be 50,000 miles.

For standards under column B, for purposes of certification under section 7525 of this title, the applicable useful life shall be 100,000 miles.

**Light-duty Trucks of up to 6,000 lbs. GVWR**

| Vehicle Type  | Column A<br>(50,000 mi.)<br>Standard | Column B<br>(120,000 mi.)<br>Standard |
|---|--------------------------------------|---------------------------------------|
| Beginning MY 1998:<br>LDT's (0-3,750 lbs. TW) ..... | 0.25                                 | 0.36                                  |
| LDT's (3,751-5,750 lbs. TW)                         | 0.32                                 | 0.46                                  |
| LDT's (above 5,750 lbs. TW)                         | 0.39                                 | 0.56                                  |

For standards under column A, for purposes of certification under section 7525 of this title, the applicable useful life shall be 50,000 miles.

For standards under column B, for purposes of certification under section 7525 of this title, the applicable useful life shall be 120,000 miles.

**(e) Replacement by CARB standards**

**(1) Single set of CARB standards**

If the State of California promulgates regulations establishing and implementing a single set of standards applicable in California pursuant to a waiver approved under section 7543 of this title to any category of vehicles referred to in subsection (a), (b), (c), or (d) of this section and such set of standards is, in the aggregate, at least as protective of public health and welfare as the otherwise applicable standards set forth in section 7582 of this title and subsection (a), (b), (c), or (d) of this section, such set of California standards shall apply to clean-fuel vehicles in such category in lieu of the standards otherwise applicable under section 7582 of this title and subsection (a), (b), (c), or (d) of this section, as the case may be.

**(2) Multiple sets of CARB standards**

If the State of California promulgates regulations establishing and implementing several different sets of standards applicable in California pursuant to a waiver approved under section 7543 of this title to any category of vehicles referred to in subsection (a), (b), (c), or (d) of this section and each of such sets of California standards is, in the aggregate, at least as protective of public health and welfare as the otherwise applicable standards set forth in section 7582 of this title and subsection (a), (b), (c), or (d) of this section, such standards shall be treated as "qualifying California standards" for purposes of this paragraph. Where more than one set of qualifying stand-

ards are established and administered by the State of California, the least stringent set of qualifying California standards shall apply to the clean-fuel vehicles concerned in lieu of the standards otherwise applicable to such vehicles under section 7582 of this title and this section.

**(f) Less stringent CARB standards**

If the Low-Emission Vehicle and Clean Fuels Regulations of the California Air Resources Board applicable to any category of vehicles referred to in subsection (a), (b), (c), or (d) of this section are modified after November 15, 1990, to provide an emissions standard which is less stringent than the otherwise applicable standard set forth in subsection (a), (b), (c), or (d), or if any effective date contained in such regulations is delayed, such modified standards or such delay (or both, as the case may be) shall apply, for an interim period, in lieu of the standard or effective date otherwise applicable under subsection (a), (b), (c), or (d) to any vehicles covered by such modified standard or delayed effective date. The interim period shall be a period of not more than 2 model years from the effective date otherwise applicable under subsection (a), (b), (c), or (d). After such interim period, the otherwise applicable standard set forth in subsection (a), (b), (c), or (d) shall take effect with respect to such vehicles (unless subsequently replaced under subsection (e)).

**(g) Not applicable to heavy-duty vehicles**

Notwithstanding any provision of the Low-Emission Vehicle and Clean Fuels Regulations of the California Air Resources Board nothing in this section shall apply to heavy-duty engines in vehicles of more than 8,500 lbs. GVWR.

(July 14, 1955, ch. 360, title II, § 243, as added Pub. L. 101-549, title II, § 229(a), Nov. 15, 1990, 104 Stat. 2514.)

**§ 7584. Administration and enforcement as per California standards**

Where the numerical clean-fuel vehicle standards applicable under this part to vehicles of not more than 8,500 lbs. GVWR are the same as numerical emission standards applicable in California under the Low-Emission Vehicle and Clean Fuels Regulations of the California Air Resources Board ("CARB"), such standards shall be administered and enforced by the Administrator—

(1) in the same manner and with the same flexibility as the State of California administers and enforces corresponding standards applicable under the Low-Emission Vehicle and Clean Fuels Regulations of the California Air Resources Board ("CARB"); and

(2) subject to the same requirements, and utilizing the same interpretations and policy judgments, as are applicable in the case of such CARB standards, including, but not limited to, requirements regarding certification, production-line testing, and in-use compliance,

unless the Administrator determines (in promulgating the rules establishing the clean fuel vehicle program under this section) that any such

administration and enforcement would not meet the criteria for a waiver under section 7543 of this title. Nothing in this section shall apply in the case of standards under section 7585 of this title for heavy-duty vehicles.

(July 14, 1955, ch. 360, title II, § 244, as added Pub. L. 101-549, title II, § 229(a), Nov. 15, 1990, 104 Stat. 2519.)

**§ 7585. Standards for heavy-duty clean-fuel vehicles (GVWR above 8,500 up to 26,000 lbs.)**

**(a) Model years after 1997; combined NO<sub>x</sub> and NMHC standard**

For classes or categories of heavy-duty vehicles or engines manufactured for the model year 1998 or thereafter and having a GVWR greater than 8,500 lbs. and up to 26,000 lbs. GVWR, the standards under this part for clean-fuel vehicles shall require that combined emissions of oxides of nitrogen (NO<sub>x</sub>) and nonmethane hydrocarbons (NMHC) shall not exceed 3.15 grams per brake horsepower hour (equivalent to 50 percent of the combined emission standards applicable under section 7521 of this title for such air pollutants in the case of a conventional model year 1994 heavy-duty diesel-fueled vehicle or engine). No standard shall be promulgated as provided in this section for any heavy-duty vehicle of more than 26,000 lbs. GVWR.

**(b) Revised standards that are less stringent**

(1) The Administrator may promulgate a revised less stringent standard for the vehicles or engines referred to in subsection (a) if the Administrator determines that the 50 percent reduction required under subsection (a) is not technologically feasible for clean diesel-fueled vehicles and engines, taking into account durability, costs, lead time, safety, and other relevant factors. To provide adequate lead time the Administrator shall make a determination with regard to the technological feasibility of such 50 percent reduction before December 31, 1993.

(2) Any person may at any time petition the Administrator to make a determination under paragraph (1). The Administrator shall act on such a petition within 6 months after the petition is filed.

(3) Any revised less stringent standards promulgated as provided in this subsection shall require at least a 30 percent reduction in lieu of the 50 percent reduction referred to in paragraph (1).

(July 14, 1955, ch. 360, title II, § 245, as added Pub. L. 101-549, title II, § 229(a), Nov. 15, 1990, 104 Stat. 2519.)

**§ 7586. Centrally fueled fleets**

**(a) Fleet program required for certain nonattainment areas**

**(1) SIP revision**

Each State in which there is located all or part of a covered area (as defined in paragraph (2)) shall submit, within 42 months after November 15, 1990, a State implementation plan revision under section 7410 of this title and part D of subchapter I to establish a clean-fuel vehicle program for fleets under this section.