standard as defined in § 86.094–2, as appropriate, at the end of the product year.

(ii) Paragraphs (b)(5)(ii) (A) and (B) of this section apply only to manufacturers electing to participate in the NO_X averaging program.

(A) If a manufacturer chooses to change the level of any family NO_X emission limit(s), compliance with the new limit(s) must be based upon existing certification data.

(B) The production-weighted average of the family FTP NO_X emission limits of all applicable engine families, rounded to two significant figures in accordance with the Rounding-Off Method specified in ASTM E29–90, Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications (incorporated by reference; see § 86.1), must comply with the NO_X standards of § 86.099–9(a)(1)(iii) (A) or (B), or the composite NO_X standard as defined in § 86.094–2, at the end of the product year.

(b)(6) [Reserved]

[61 FR 54884, Oct. 22, 1996, as amended at 75 FR 22978, Apr. 30, 2010]

§ 86.001–2 Definitions.

The definitions of § 86.000–2 continue to apply to 2000 and later model year vehicles. The definitions listed in this section apply beginning with the 2001 model year.

Useful life means:

(1) For light-duty vehicles, and for light light-duty trucks not subject to the Tier 0 standards of § 86.094–9(a), intermediate useful life and/or full useful life. Intermediate useful life is a period of use of 5 years or 50,000 miles, whichever occurs first. Full useful life is a period of use of 10 years or 100,000 miles, whichever occurs first, except as otherwise noted in § 86.094–9. The useful life of evaporative and/or refueling emission control systems on the portion of these vehicles subject to the evaporative emission test requirements of § 86.130–96, and/or the refueling emission test requirements of § 86.151–2001, is defined as a period of use of 10 years or 100,000 miles, whichever occurs first.

(2) For light light-duty trucks subject to the Tier 0 standards of § 86.094–9(a), and for heavy light-duty truck engine families, intermediate and/or full useful life. Intermediate useful life is a period of use of 5 years or 50,000 miles, whichever occurs first. Full useful life is a period of use of 11 years or 120,000 miles, whichever occurs first. The useful life of evaporative emission and/or refueling control systems on the portion of these vehicles subject to the evaporative emission test requirements of § 86.130–96, and/or the refueling emission test requirements of § 86.151–2001, is also defined as a period of 11 years or 120,000 miles, whichever occurs first.

(3) For an Otto-cycle heavy-duty engine family:

(i) For hydrocarbon and carbon monoxide standards, a period of use of 8 years or 110,000 miles, whichever first occurs.

(ii) For the oxides of nitrogen standard, a period of use of 10 years or 110,000 miles, whichever first occurs.

(iii) For the portion of evaporative emission control systems subject to the evaporative emission test requirements of § 86.1230–96, a period of use of 10 years or 110,000 miles, whichever occurs first.

(4) For a diesel heavy-duty engine family:

(i) For light heavy-duty diesel engines, for hydrocarbon, carbon monoxide, and particulate standards, a period of use of 8 years or 110,000 miles, whichever first occurs.

(ii) For light heavy-duty diesel engines, for the oxides of nitrogen standard, a period of use of 10 years or 110,000 miles, whichever first occurs.

(iii) For medium heavy-duty diesel engines, for hydrocarbon, carbon monoxide, and particulate standards, a period of use of 8 years or 185,000 miles, whichever first occurs.

(iv) For medium heavy-duty diesel engines, for the oxides of nitrogen standard, a period of use of 10 years or 185,000 miles, whichever first occurs.

(v) For heavy heavy-duty diesel engines, for hydrocarbon, carbon monoxide, and particulate standards, a period of use of 8 years or 290,000 miles, whichever first occurs, except as provided in paragraph (4)(vii) of this definition.

(vi) For heavy heavy-duty diesel engines, for the oxides of nitrogen standard, a period of use of 10 years or 290,000 miles, whichever first occurs.

(vii) For heavy heavy-duty diesel engines used in urban buses, for the particulate standard, a period of use of 10 years or 290,000 miles, whichever first occurs.

[59 FR 16281, Apr. 6, 1994, as amended at 61 FR 54886, Oct. 22, 1996]

§ 86.001–9 Emission standards for 2001 and later model year light-duty trucks.

Section 86.001–9 includes text that specifies requirements that differ from § 86.097–9, § 86.099–9 or § 86.000–9. Where a paragraph in § 86.097–9, § 86.099–9 or § 86.000–9 is identical and applicable to § 86.001–9, this may be indicated by specifying the corresponding paragraph and the statement ''[Reserved]. For guidance see § 86.097–9.'' or ''[Reserved]. For guidance see § 86.099–9.'' or ''[Reserved]. For guidance see § 86.000–9.''

(a)(1) introductory text through (a)(1)(iii) [Reserved]. For guidance see § 86.097–9.

(a)(1)(iv)–(b)(4) [Reserved]. For guidance see § 86.099–9.

(b)(5) [Reserved]

(b)(6) Vehicles certified to the refueling standards set forth in paragraph (d) of this section are not required to demonstrate compliance with the fuel dispensing spitback standards contained in § 86.096–9 (b)(1)(iii) and (b)(2)(iii): Provided, that they meet the requirements of § 86.001–28(f).

(c) [Reserved]. For guidance see § 86.097–9.

(d) Refueling emissions from 2001 and later model year gasoline-fueled and methanol-fueled Otto-cycle and petroleum-fueled and methanol-fueled diesel-cycle light duty trucks of 6,000 pounds or less GVWR shall not exceed the following standards. The standards apply equally to certification and in-use vehicles.

(1) Standards—(i) Hydrocarbons (for gasoline-fueled Otto-cycle and petroleum-fueled diesel-cycle vehicles). 0.20 gram per gallon (0.053 gram per liter) of fuel dispensed.

(ii) Total Hydrocarbon Equivalent (for methanol-fueled vehicles). 0.20 gram per gallon (0.053 gram per liter) of fuel dispensed.

(iii) Hydrocarbons (for liquefied petroleum gas-fueled vehicles). 0.15 gram per gallon (0.04 gram per liter) of fuel dispensed.

(iv) Refueling receptacle (for natural gas-fueled vehicles). Refueling receptacles on natural gas-fueled vehicles shall comply with the receptacle provisions of the ANSI/AGA NGV1–1994 standard (as incorporated by reference in § 86.1).

(2)(i) The standards set forth in paragraphs (d)(1)(i) and (ii) of this section refer to a sample of refueling emissions collected under the conditions as set forth in subpart B of this part and measured in accordance with those procedures.

(ii) For vehicles powered by petroleum-fueled diesel-cycle engines, the provisions set forth in paragraph (d)(1)(i) of this section may be waived: Provided, that the manufacturer complies with the provisions of § 86.001–28(f).

(3) A minimum of the percentage shown in table A01–09 of a manufacturer's sales of the applicable model year's gasoline- and methanol-fueled Otto-cycle and petroleum-fueled and methanol-fueled diesel-cycle light-duty trucks of 6,000 pounds or less GVWR shall be tested under the procedures in subpart B of this part indicated for 2001 and later model years, and shall not exceed the standards described in paragraph (d)(1) of this section. Vehicles certified in accordance with paragraph (d)(2)(ii) of this section, as determined by the provisions of § 86.001–28(g), shall not be counted in the calculation of the percentage of compliance:

TABLE A01–09—IMPLEMENTATION SCHEDULE FOR LIGHT-DUTY TRUCK REFUELING EMISSION TESTING

Model year	Sales percentage
2001	40
2002	80
2003 and subsequent	100

(e) [Reserved]. For guidance see § 86.000–9.

(f) [Reserved]

(g)–(k) [Reserved]. For guidance see § 86.097–9.

[61 FR 54886, Oct. 22, 1996]