

which comprise the required implementation schedule percentage of sales meeting Tier 1 standards, for PM, for purposes of certification, shall be the same engine families which comprise the required implementation schedule percentage of sales meeting the final in-use standards (labeled "Tier 1" in the tables of in-use standards) for PM for in-use purposes.

(3) The manufacturer must state at the time of Application for Certification, based on projected U.S. sales or projected production for U.S. sale, which families will be used to attain the required implementation schedule sales percentages for in-use purposes.

(4) A manufacturer cannot use one set of engine families to meet its in-use intermediate useful life standards and another to meet its in-use full useful life standards. The same families which are used to meet the intermediate useful life standards will be required without deviation to meet the corresponding full useful life standards.

(ii) Engine families participating in the particulate averaging program as specified in §86.094-8 (a)(1)(ii) shall be subject, for purposes of in-use compliance, to the particulate family emission limit determined for that engine family for certification purposes, in lieu of the appropriate particulate standard shown in the tables of in-use standards in this section.

(iii) CST emissions from model year 1996 and later gasoline-fueled Otto-cycle light-duty vehicles measured and calculated in accordance with subpart O of this part may not exceed the standards listed in paragraphs (a)(1)(iii) (A) and (B) of this section.

- (A) Hydrocarbons: 220 ppm as hexane.
- (B) Carbon monoxide: 1.2 percent.

(2) The standards set forth in paragraph (a)(1)(i) of this section refer to

the exhaust emitted over a driving schedule as set forth in subpart B of this part and measured and calculated in accordance with those procedures. The test weight basis for light-duty vehicles, for the purposes of determining equivalent test weight as prescribed in §86.129-94, shall be loaded vehicle weight.

(3) The standards set forth in paragraph (a)(1)(iii) of this section refer to the exhaust emitted during the CST as set forth in subpart O of this part and measured and calculated in accordance with those provisions.

(b) The provisions of §86.090-8(b) through (h) of subpart A of this part apply to this section. The provisions of §86.096-8(i) through (k) of subpart A of this part apply to this section.

[56 FR 25781, June 5, 1991, as amended at 57 FR 31922, July 17, 1992; 58 FR 33211, June 16, 1993; 58 FR 58424, Nov. 1, 1993; 59 FR 33913, July 1, 1994; 59 FR 48515, Sept. 21, 1994]

**§ 86.708-98 In-use emission standards for 1998 and later model year light-duty vehicles.**

Section 86.708-98 includes text that specifies requirements that differ from §86.090-8 of subpart A of this part. Where a paragraph in §86.090-8 is identical and applicable to §86.708-98, this may be indicated by specifying the corresponding paragraph and the statement "[Reserved]. For guidance see §86.090-8." Where a corresponding paragraph of §86.090-8 is not applicable, this is indicated by the statement "[Reserved]."

(a)(1)(i) In-use exhaust emissions from 1998 and later model year light-duty vehicles shall meet all standards in tables H98-1 and H98-2 in the rows designated with the applicable fuel type.

TABLE H98-1—INTERMEDIATE USEFUL LIFE <sup>1</sup> STANDARDS (G/M) FOR LIGHT-DUTY VEHICLES

Fuel	THC	NMHC	THCE	NMHCE	CO	NO <sub>x</sub>	PM
Gasoline .....	0.41	0.25	.....	.....	3.4	0.4	0.08
Diesel .....	0.41	0.25	.....	.....	3.4	1.0	0.08
Methanol .....	.....	.....	0.41	0.25	3.4	0.4	0.08
Natural Gas .....	.....	0.25	.....	.....	3.4	0.4	0.08
LPG .....	0.41	0.25	.....	.....	3.4	0.4	0.08

<sup>1</sup>The applicable useful life is 5 years or 50,000 miles, whichever first occurs.

TABLE H98-2—FULL USEFUL LIFE <sup>1</sup> STANDARDS (G/M) FOR LIGHT-DUTY VEHICLES

Fuel	THC	NMHC	THCE	NMHCE	CO	NO <sub>x</sub>	PM
Gasoline .....	.....	0.31	.....	.....	4.2	0.6	0.10
Diesel .....	.....	0.31	.....	.....	4.2	1.25	0.10
Methanol .....	.....	.....	.....	0.31	4.2	0.6	0.10
Natural Gas .....	.....	0.31	.....	.....	4.2	0.6	0.10
LPG .....	.....	0.31	.....	.....	4.2	0.6	0.10

<sup>1</sup> The applicable useful life is 10 years or 100,000 miles, whichever first occurs, except that no enforcement testing will be done beyond 7 years or 75,000 miles, whichever first occurs.

(ii)(A) Vehicles subject to the standards of paragraph (a)(1)(i) of this section shall be all actual U.S. sales of light-duty vehicles of the applicable model year by a manufacturer.

(B) A manufacturer cannot use one set of engine families to meet its in-use intermediate useful life standards and another to meet its in-use full useful life standards. The same families which are used to meet the intermediate useful life standards will be required without deviation to meet the corresponding full useful life standards.

(iii) CST emissions from gasoline-fueled Otto-cycle light-duty vehicles measured and calculated in accordance with subpart O of this part may not exceed the standards listed in paragraphs (a)(1)(iii) (A) and (B) of this section.

(A) Hydrocarbons: 220 ppm as hexane.

(B) Carbon monoxide: 1.2 percent.

(2) The standards set forth in paragraph (a)(1) of this section refer to the exhaust emitted over a driving schedule as set forth in subpart B of this part and measured and calculated in accordance with those procedures. The test weight basis for light-duty vehicles, for the purposes of determining equivalent test weight as prescribed in § 86.129-94, shall be loaded vehicle weight.

(3) The standards set forth in paragraph (a)(1)(iii) of this section refer to the exhaust emitted during the CST as set forth in subpart O of this part and measured and calculated in accordance with those provisions.

(b) The provisions of § 86.090-8 (b) through (h) of subpart A of this part apply to this section. The provisions of § 86.096-8 (i) through (j) of subpart A of this part apply to this section.

[56 FR 25781, June 5, 1991, as amended at 58 FR 58424, Nov. 1, 1993; 59 FR 33913, July 1, 1994; 59 FR 48516, Sept. 21, 1994]

**§ 86.709-94 In-use emission standards for 1994 and later model year light-duty trucks.**

Section 86.709-94 includes text that specifies requirements that differ from § 86.091-9 of subpart A of this part. Where a paragraph in § 86.091-9 is identical and applicable to § 86.709-94, this may be indicated by specifying the corresponding paragraph and the statement “[Reserved]. For guidance see § 86.091-9.” Where a corresponding paragraph of § 86.091-9 is not applicable, this is indicated by the statement “[Reserved].”

(a)(1) *Standards*—(i) *Light light-duty trucks*. In-use exhaust emissions from 1994 and later model year light light-duty trucks shall meet all standards in tables H94-9 and H94-10 in the rows designated with the applicable fuel type and loaded vehicle weight, according to the implementation schedule in table H94-8, and shall meet all standards in tables H94-12 and H94-13 in the rows designated with the applicable fuel type and loaded vehicle weight, according to the implementation schedules in table H94-11, as follows:

(A)(i) For model year 1994 and 1995, a minimum of the respective percentages shown in the Tier 1<sub>1</sub> column of table H94-8 of a manufacturer’s sales of the applicable model year’s light light-duty trucks shall not exceed the applicable Tier 1<sub>1</sub> standards in tables H94-9 and H94-10. The remaining vehicles, if any, shall not exceed the applicable Tier 0 standards in tables H94-9 and H94-10.

(ii) For model years 1996 and 1997, a minimum of the percentages shown in the Tier 1 percentage column of table H94-8 of a manufacturer’s sales of the applicable model year’s light light-duty trucks shall not exceed the applicable Tier 1 standards in table H94-9 and H94-10, and the remaining vehicles,