

Environmental Protection Agency

§ 87.2

APPENDIX XII TO PART 86—TABLES FOR PRODUCTION COMPLIANCE AUDITING OF HEAVY-DUTY ENGINES AND HEAVY-DUTY VEHICLES, INCLUDING LIGHT-DUTY TRUCKS

TABLE 1—COMPLIANCE LEVEL DETERMINATION USING THE PRIMARY PCA SAMPLING PLAN

	Compliance level ²
PCA test sample size. ¹	
24	15
25	15
26	16
27	17
28	17
29	18
30	18
31	19
32	20
33	20
34	21
35	21
36	22
37	23
38	23
39	24
40	24
41	25
42	26
43	26
44	27
45	27
46	28
47	29
48	29
49	30
50	30
51	31
52	32
53	32
54	33
55	33
56	34
57	35
58	35
59	36
60	36

¹ Including the number of SEA tests if applicable.
² Is the test result of the sequence number: (The lowest test result is sequence No. 1).

TABLE 2—VALUES OF K FOR THE REDUCED FIXED PCA SAMPLING PLAN

	Value of K
Sample size:	
3	1.602
4	1.114
5	0.895
6	0.764
7	0.674
8	0.608
9	0.555
10	0.513
11	0.478
12	0.448
13	0.422
14	0.399
15	0.379

TABLE 2—VALUES OF K FOR THE REDUCED FIXED PCA SAMPLING PLAN—Continued

	Value of K
16	0.360
17	0.343
18	0.328
19	0.314
20	0.301
21	0.289
22	0.277
23	0.266

TABLE 3—VALUES OF K FOR THE REDUCED SEQUENTIAL PCA SAMPLING PLAN

	Value of K
Sample size:	
4	1.671
8	0.912
12	0.672
16	0.540
20	0.451

[50 FR 35401, Aug. 30, 1985]

PART 87—CONTROL OF AIR POLLUTION FROM AIRCRAFT AND AIRCRAFT ENGINES

Sec.

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AUTHORITY: 42 U.S.C. 7401 *et seq.*

SOURCE: 87 FR 72350, Nov. 23, 2022, unless otherwise noted.

§ 87.1 Definitions.

Definitions apply as described in 40 CFR 1031.205.

§ 87.2 Abbreviations.

Abbreviations apply as described in 40 CFR 1031.200.

§ 87.3

§ 87.3 General applicability and requirements.

Provisions related to the general applicability and requirements of aircraft engine standards apply as described in 40 CFR 1031.1.

§ 87.10 Applicability—fuel venting.

Fuel venting standards apply to certain aircraft engines as described in 40 CFR 1031.30(b).

§ 87.11 Standard for fuel venting emissions.

Fuel venting standard apply as described in 40 CFR 1031.30(b).

§ 87.20 Applicability—exhaust emissions.

Exhaust emission standards apply to certain aircraft engines as described in 40 CFR 1031.40 through 1031.90.

§ 87.21 Exhaust emission standards for Tier 4 and earlier engines.

Exhaust emission standards apply to new aircraft engines as described in 40 CFR 1031.40 through 1031.90.

§ 87.23 Exhaust emission standards for Tier 6 and Tier 8 engines.

Exhaust emission standards apply to new aircraft engines as follows:

(a) New turboprop aircraft engine standards apply as described in 40 CFR 1031.40.

(b) New supersonic engine standards apply as described in 40 CFR 1031.90.

(c) New subsonic turbofan or turbojet aircraft engine standards apply as follows:

(1) Standards for engines with rated output at or below 26.7 kN thrust apply as described in 40 CFR 1031.50.

(2) Standards for engines with rated output above 26.7 kN thrust apply as described in 40 CFR 1031.60.

(d) NO_x standards apply based on the schedule for new type and in-production aircraft engines as described in 40 CFR 1031.60.

§ 87.31 Exhaust emission standards for in-use engines.

Exhaust emission standards apply to in-use aircraft engines as described in 40 CFR 1031.60.

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§ 87.48 Derivative engines for emissions certification purposes.

Provisions related to derivative engines for emissions certification purposes apply as described in 40 CFR 1031.130.

§ 87.50 Exemptions and exceptions.

Provisions related to exceptions apply as described in 40 CFR 1031.20. Provisions related to exemptions apply as described in 40 CFR 1031.10.

§ 87.60 Testing engines.

Test procedures for measuring gaseous emissions and smoke number apply as described in 40 CFR 1031.140.

PART 88—CLEAN-FUEL VEHICLES

Sec.

88.1 General applicability.

88.2 through 88.3 [Reserved]

AUTHORITY: 42 U.S.C. 7410, 7418, 7581, 7582, 7583, 7584, 7586, 7588, 7589, 7601(a).

SOURCE: 86 FR 34372, June 29, 2021, unless otherwise noted.

§ 88.1 General applicability.

(a) The Clean Air Act includes provisions intended to promote the development and sale of clean-fuel vehicles (see 42 U.S.C. 7581–7589). This takes the form of credit incentives for State Implementation Plans. The specified clean-fuel vehicle standards to qualify for these credits are now uniformly less stringent than the emission standards that apply for new vehicles and new engines under 40 CFR parts 86 and 1036.

(b) The following provisions apply for purposes of State Implementation Plans that continue to reference the Clean Fuel Fleet Program:

(1) Vehicles and engines certified to current emission standards under 40 CFR part 86 or 1036 are deemed to also meet the Clean Fuel Fleet standards as Ultra Low-Emission Vehicles.

(2) Vehicles and engines meeting requirements as specified in paragraph (a)(1) of this section with a fuel system designed to not vent fuel vapors to the atmosphere are also deemed to meet the Clean Fuel Fleet standards as Inherently Low-Emission Vehicles. This paragraph (b)(2) applies for vehicles using diesel fuel, liquefied petroleum