
40 C.F.R. § 86.1829-15

Durability and emission testing requirements; waivers.

This section describes general testing requirements for certifying vehicles under this subpart, and includes several provisions allowing for statements of compliance instead of testing in certain circumstances. Where a manufacturer provides a statement instead of test data under this section, it must be based on previous emission tests, development tests, or other appropriate information, and on good engineering judgment.

(a) Durability requirements apply as follows:

(1) One durability demonstration is required for each durability group. The configuration of the DDV is determined according to § 86.1822. The DDV shall be tested and accumulate service mileage according to the provisions of §§ 86.1823, 86.1824, 86.1825, and 86.1831. Small-volume manufacturers and small-volume test groups may optionally use the alternative durability provisions of § 86.1838.

(2) Manufacturers may provide a statement in the application for certification that vehicles comply with the monitor accuracy and battery durability requirements of § 86.1815-27 instead of submitting test data for certification. The following durability testing requirements apply for battery electric vehicles and plug-in hybrid electric vehicles after certification:

(i) Manufacturers must perform monitor accuracy testing on in-use vehicles as described in § 86.1845-04(g) for each monitor family. Carryover provisions apply as described in § 86.1839-01(c).

(ii) Manufacturers must perform battery durability testing as described in § 86.1815-27.

(b) The manufacturer must test EDVs as follows to demonstrate compliance with emission standards:

(1) Except as specified in this section, test one EDV in each test group using the test procedures specified in this subpart to demonstrate compliance with other exhaust emission standards.

(2) Test one EDV in each test group using the test procedures in 40 CFR part 1066 to demonstrate compliance with cold temperature exhaust emission standards.

(3) Test one EDV in each test group to each of the three discrete mid-temperature intermediate soak standards identified in § 86.1811-27.

(4) Test one EDV in each evaporative/refueling family and evaporative/refueling emission control system combination using the test procedures in subpart B of this part to demonstrate compliance with evaporative and refueling emission standards.

(c) The manufacturer must demonstrate compliance with emission standards at low-altitude conditions as described in paragraph (b) of this section. For standards that apply at high-altitude conditions, the manufacturer may either perform the same tests or provide a statement in the application for certification that, based on an engineering evaluation of appropriate testing to measure or simulate high-altitude

emissions, all vehicles comply with applicable emission standards at high altitude.

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